

Lehm

GOETHE

FAUST

he

h





1. W 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

- 2. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

3. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

4. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

5. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

6. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

7. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

8. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,



- P H ~ N K L o n  
D L g u, n d z b /,  
- z u ~ z y f t L u  
z f r e, z e o d z /,  
~ z u b o p, L u l d ~ L u,  
e f r z y, - b / v e - c /;  
c o, l o f, o, o R c /,  
- c o g e, v / o n.

# VORSPIEL AUF DEM THEATER

entw. unabh. f. Co.

entw.:

$\wedge \cup \cup, \wedge \cup \cup \rightarrow \cup,$

$\cup \cup \cup \rightarrow \cup, \cup \cup \cup,$

$\cup, \cup \cup \cup \rightarrow \cup \cup$

S'iz Ly 2 0?

$\cup \cup \cup \cup \cup \cup,$

$\cup \cup \cup \cup \cup \cup.$

1.  $\rho \sim \rho^2$ ,  $\ln \rho \sim \rho$ ,

-  $\ln \rho \sim \rho$  -  $\ln \rho$ .

6.  $\rho \sim \rho^2$   $\rho \sim \rho$

$\rho \sim \rho$  -  $\rho \sim \rho$

1.  $\rho \sim \rho$ ,  $\rho \sim \rho$  -  $\rho \sim \rho$  -  $\rho \sim \rho$ ;

$\rho \sim \rho$  -  $\rho \sim \rho$  -  $\rho \sim \rho$ :

$\rho \sim \rho$  -  $\rho \sim \rho$  /  $\rho$ ,

$\rho \sim \rho$  -  $\rho \sim \rho$ .

$\rho \sim \rho$ ,  $\rho \sim \rho$  -  $\rho$

-  $\rho \sim \rho$  -  $\rho \sim \rho$  ?

$\rho \sim \rho$ ,  $\rho \sim \rho$ ,  $\rho \sim \rho$ ,



c) für Dicken,

- 2 p' e r c a

1 p, n n e l t p l;

✓ 2 n n, j - h n;

2 f o ) l ~ n o l l

- , o z z o s t r l ~ u n n;

2 ~ u 1 ) l b, z o l l.

9 c e o u t s - g l i - z

✓ d h - ; 2 l o , - 4 - 2 z !

sh:

— p v l s h u v u,

u ~ u r s' 2 b d l.

se v e c r e p,

e e ~ s j f e p.

u, b p j g u d e r,

c ~ 2 d h ~ l e u;

c t - l e f i o z y o n

2 2 n o g h - l e n.

D! co 2 dr 4 5 es dr,  
co), dr 2 dr 2 dr,  
2 dr 2 dr - 2 dr 2 dr,  
2 dr 2 dr 2 dr 2 dr.  
D, C - 2 dr 2 dr,  
2 dr 2 dr 2 dr.  
co 2 dr; l ~ 2 dr 2 dr,  
e 2 dr 2 dr 2 dr.

*f* *Com:*

$c_1 \rightarrow 1/5 \sim 2/2 \sim 1/2$

$pf, e_1 \sim 1/2 \sim 1/2 \sim 1/2$

$c_1 \sim 1/2 \sim 1/2 \sim 1/2$

$\sim 1/2 \sim 1/2 \sim 1/2$

$1/2 \sim 1/2 \sim 1/2 \sim 1/2$

$; e_1, 1/2, 1/2, 1/2$

$c_1 \sim 1/2 \sim 1/2 \sim 1/2$

$\sim 1/2 \sim 1/2 \sim 1/2$

$1/2 \sim 1/2 \sim 1/2 \sim 1/2$

$2 \sim 1/2 \sim 1/2$



$\wedge^e \sim \text{f. p. } \omega$

$\omega \sim \sqrt{\wedge} \rightarrow p \omega \text{ g. m.}$

$\sim \text{ten } a) \text{ re. } b \text{ co. } e$

$c \text{ f. } \omega \text{ W, ' } \omega \text{ re. } \omega \text{ W.}$

$-\text{ten } \omega \text{ f. } \omega^2 \omega$

$\omega \wedge \sim \text{g.} \text{ — } \omega \text{ — } \omega \text{ } \omega \text{ g. m.}$

$\text{I} \sim \omega, \text{ — } \omega \text{ } \omega \text{ m.}$

$\text{N. — } \omega \text{, — } \text{N. } \omega \text{ g. l.}$

$\text{co } \omega \text{ l, } c \wedge \sim \omega \text{ } \omega \text{ g. l.}$

$e \text{ } \omega \text{ l' — } \omega \text{ } \omega \text{ m.}$

sh:

1 b1, 0 fl ~ 20000!

0 c1 e<sup>2</sup> l u n d j u!

'm m l g

; m, j u / v u.

ent:

~ 2 a b b p p u t:

~ u, l j o u n e n t,

20 s e l b e n g, 2 f.

u e n t, 1 m c 20 2 j j f.

-  $\sigma \rightarrow 2, \text{car} \rightarrow \text{f}!$

concord,

with  $\sigma \rightarrow \text{f} \rightarrow \text{e}$ ,

- concord,

with  $\sigma \rightarrow \text{e} \rightarrow \text{e}$ .

with  $\text{f} \rightarrow \text{f}, \text{e} \rightarrow \text{e}$ ,

-  $\sigma \rightarrow \text{f} \rightarrow \text{f}$ ;

( $\text{e} \rightarrow \text{e}$ ) -  $\text{e} \rightarrow \text{f}$

-  $\text{e} \rightarrow \text{e}$ ?

concord -  $\text{e} \rightarrow \text{e}$ ?

concord -  $\text{e} \rightarrow \text{e}$ ?



601, 2 ~ 2 ~ 2!

2d<sup>2</sup> b ~ d, 2d<sup>2</sup> b ~ d.

∴ D<sup>2</sup> z z, 2 d ~ d z,

∴ d ~ d ~ d ~ d.

co d ~ d ~ d,

∴ d ~ d, 2 d ~ d?

∴ d ~ d, d ~ d, d ~ d,

— d ~ d ~ d ~ d

d ~ d ~ d ~ d,

d ~ d ~ d ~ d

co d ~ d ~ d ~ d

sh:

na-ber ~ hml!

\sh' c. e. z. h. h.,

e. z. h. h., e. p. h. h.,

z. e. h. h. h. h.!

c. e. h. h. h. h.?

c. e. h. h. h. h.?

· \ ~ h. h. h. h. h. h. h.,

- z. e. h. h. h. h. h. h.?

c. e. h. h. h. h. h. h.,

z. e. h. h. h. h. h. h.,



youngest tenor?  
a bit ~ ~~10~~ ~ 12m?  
oxygen, rich blood.

of course:

- Ubers, young

- W, strong

or ~ ~~10~~ W.

for ~ 12m, 10, 10

- D - D'rich;

- Ober, 10 - 12

nicht, nicht ganz,

- auch nicht, nicht

bis - nicht!

20 - 20 - 20!

- der ist, der ist,

- er ist, er ist.

20 - 20 - 20,

20 - 20 - 20,

- 20 - 20,

- 20 - 20.

er ist) - 20 - 20

— r p - y ' h u ,  
e o n t o p t p r  
o — r c u ) u u i j u ,  
e ' u e q , u e h o g r t

— t e r o , c o . R z y h .

I z b z w , j c u - j d u ,

o n I ~ z u , h e ) R z i ;

a l p ; 2 . 9 R j v h i ;

— o e r p e n t o .

Sh:

—  $xv D, f \sim \epsilon,$

$e_1, 26 R \sim a,$

$e_1) \sim \epsilon, p \sim \epsilon$

$\mu \sim \mu,$

$e_1 \sim v, d \sim \epsilon,$

$\sim f \sim \epsilon, 2 \sim \mu,$

$e_1, 16 \sim \epsilon, \mu,$

$\sim \epsilon, \mu \sim \epsilon, \mu.$

$\sim \epsilon - \epsilon, \mu:$

$\sim \epsilon \sim \epsilon, \mu - 1, 6 \sim \epsilon.$

u p u d L u,  
e d, z p u e r,  
o 20 u l, u l u,  
u r h e u p!

o G o u:

h r o u l e u b e e e l e o,  
c d z p h l e o u,  
c r p e e e 20  
j e n t r e h e u,  
c h u o z u d o u y



Sp ✓ by out,  
c D<sup>2</sup> all the way  
in the center.  
Doubt of  
2y - 2y - 2y,  
D 2 by 2 y  
2 2 or 2 2 y,  
e, 2 2, - 2,  
- 1 2 2 2 2.  
e 2 2 2 2, 2 2,  
- 2 2 2 2 2 2.

ent:

ent<sup>2</sup> m p d,

b p d r e u o i!

z r n s p t d,

n k o n t o p u.

c o z l l, f i s p u e r?

<sup>2</sup> f e v e r g u b o n.

w r s n e l l e u,

— n v e t, C o b.

s i u n t, c o r u e r t,

r — g u p u z g e h;



Sept 1 - 1 year.

Me 20, - in 2000,

1 year old, 1 year;

~ 00, 10, 1000,

~ 1 - 1000 / 1.

— 1<sup>2</sup> ~ 1000

~ 200 ~ 10<sup>3</sup> 10<sup>3</sup>,

— 100 1000 1000

1000, 1000 / 1000.

# PROLOG IM HIMMEL

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

11. 12. 13. 14. 15.

16. 17. 18. 19. 20.

21.

22. 23. 24. 25. 26.

27. 28. 29. 30. 31.

32. 33. 34. 35. 36.

37. 38. 39. 40. 41.

1.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ ;

2.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ ;

3.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ ;

4.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ .

*10:*

1.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ ;

2.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ ;

3.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ ;

4.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ .

5.  $\sqrt{a^2 + b^2} \sim \sqrt{a^2} + \sqrt{b^2}$ .

rehe'ber s,  
-lo-ri'ho  
re'p'ud'ent.

re:

-gr'lor'ia  
I'ri'so'ra, I'ri'so'ra,  
-ver'ne - re  
-I'ri'so'ra, I'ri'so'ra.  
er'be - I'ri'so'ra  
re - I'ri'so'ra.

de l'homme,  
c'est ce qu'il est.

JE:

l'homme n'est pas  
un être fini,  
c'est un être  
qui se construit.









21:

ndy ~ 6?

dy lo:

~ 2?

21:

~ 2!

alg. Co.

ber. \ or / s & c.

1100. o \ u h 2 p.

~ \ d, 2, 3, 4, 5,

\ ) o \ u 2 u u b;

S r. l e t, \, 2, 3, 4, 5

- S \ r e t e 2 3 4,

- e ~ s - e l u

u e t /, d e c t 4.

2x:

$c, v, D \rightarrow \text{cand},$

$\rightarrow c, r, u, e, i, n, g, b, n.$

$c, o, d, w, c, e, l, d, w,$

$e, u, -h, n, u, l, l, h, y, n.$

2y lo:

$c, o, c, h, r, i, s, t, i, a, n, i, t, y,$

$c, r, i, s, t, i, a, n, i, t, y,$

$\sim r, f, o, l, l, o, w.$

21:

— r, s, r, d,

— r, e, l, e, n,

— N, r, g — r, f, l.

22:

e, e, r, i, e, l, e, l, e, n

r, p, r, o, m, i, s, e, n.

r, e, s, t, i, t, u, t, i, o, n, e, n.

e, l, e, m, e, n, t, a, r, i, e, n.

v, e, r, t, e, n, i, s, t, e, n.

2x:

~2, - er so!

pr 26/02/11,

- 6, 1, 1, 10,

ser 22,

- 1, 1, 1, 1:

~2, 2, 2, 2,

.) 1, 1, 1, 1.



24. Leo:

24!  $\rightarrow$  esw-1r.

v. l r a n / u.

c, j r g r,

w / r v k l e u f.

g e - k o, - 2 f,

a r m, u w g r.

24:

e r d e s - l g r;

1 2 e o r h u p b.

Sen 20, 1, 1, 1, 1,

• v'ger acat / b.

o v'ger w' n' g' n' g' l' h.

• n' g' e, p' e' t' s;

e' n' m' p' e' n' s;

• g' - o' u' t' - w' o' s' t' e' l' h.

e' n' s, 1, h' e' n' o' u,

h' e' n' s' i' v' e' s' i' g' n' e'!

e' o' e, e' o' o' u' t' - s,

h' o' n' o' r' e' n' s,

- c' o' z' g' e' n' e' r' e' s' g' l,

do never run!

~ x p, ~ y r u n).

do lo: (u)

~ x p, ~ y r u n,

~ x p, ~ y r u n.

~ x p, ~ y r u n,

~ x p, ~ y r u n.



# *DER TRAGÖDIE ERSTER TEIL*





-v - m o p i;

z o v b, z o e n

-f z n, f z l

x, x - l - n

z y n i n o z m

-o, e i o o m!

e - v y e z y l m.

f v, f s e i l m,

e, v b, f u - l l i;

v l m n o k d f l,

l l v c e n z e d l m



el. v D e L e s t o ,  
ve v / ~ , co s b j o ,  
ve v / ~ , 1 ~ L co m ,  
1, 2 p j u o ~ - j u m .  
D o , ce r y ~ 2 e ,  
I a ' - m / ' d ;  
- v m ce - m m !  
e r , v ' v m ,  
v v r b l l - v e  
/ v p w o s v e ;  
e , / v l o r z o

Jan 12, 1910

1910, 1911

1912, 1913

1914, 1915

1916, 1917

1918, 1919

1920, 1921

1922, 1923

1924, 1925

1926, 1927

Wohin Legete v!  
D. Liedes was  
zerkürz,  
was zerkürz,  
so zerkürz,  
Liedes zerkürz,  
zerkürz!

W! f! z! z! z!  
Mozart,  
C. B. zerkürz

Крестъ зъ О!  
Дружбѣ О!  
~ О О, гелет,  
~<sup>6</sup> О О О О О О  
~ О О О О О;  
О О О, О О О О О,  
О О О О О,  
— О О О О О О О О  
e·e c! ee — c!

-Weg, Energie

zurück?

zurück?

zurück?

zurück?

zurück?

zurück?

zurück?

Op! s! 2010 c se!  
- 9 p w o d,  
In fer's in re,  
• er - 1 / m?  
unberigul,  
- c n u d k b,  
en n, o n d e s,  
o p l ~ 2 b j e 2 b.  
w o d, e l i n o b n  
i 2 i n j h e r w d:  
^ z d, ^ 2 b, ~ n v;

к √ v, c ∩ √ 2 √!

√ 2 √ e ∩ s - w ∩ e √ 2 √  
v ∩ a ∘.

2! c ∩ c ∩ b ∩ 2 ∩ w

s ∩ w ∩ v ∩ e ∩ 2 ∩ 6 ∩!

1 ∩ b ∩ h ∩ 0, 2 ∩ 0 ∩ w ∩

→ p ∩ c ∩ v ∩ p ∩ w ∩ √ - e ∩ w ∩.

c ∩ - ∩ 2 ∩, √ ∩ √ 2 ∩ √,

1 ∩ v ∩ e ∩ w ∩ l ∩ g ∩,





Uyefh.

o-oo) / r p d,

~ 2 h out - d!

o r o r l l s - r p n

- ) , 2 d n r ✓ h!

2 o n e l l e n g n

S r p , r e d n ,

2 n d - e - l - n - !

СД жж! м Д! ~ жж! ~!

С б о, е, р, н, м?

С б, С? ^ Е н е о м о,

~ ~ н - н н,

е о, с н 4) н н

^ Е, ^ н, - ж, - м?

~ ж ж (е о) н - н н е ж н о н н б.



- eq! - fu ~ fu

v ~ v ~ m - a

~ zu ~ fu ~

- b ~ v ~!

~ b ~ e ~ z ~ v ~, ~ u ~ v

~ u ~!

z! ~ v ~ v ~ v ~ b!

~ u ~ b

~ v ~ v ~ v ~!

~ b ~ v ~ v ~ v ~!

~ v ~! ~ v ~! - ~ b - ~ u ~!

leben - Preis 2000  
H - 100, 200, 300

20:

1000

10: (1000)

1000!

26:

g v p v m n f n,

n v d v r p n,

- n m

4:

o! , h p!

26:

g b, m e p j n,

v p j z n, v p j z i;

Der Mensch,  
er ist in der Welt  
begeben! C. 1. 2. 3.  
C. 1. 4. 1. 2. 3. 4.  
-h- st, 1. 2. 3. 4.  
g., 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.  
C. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.  
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.  
2. 3. 4. 5. 6. 7. 8. 9. 10.  
~ 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.





~ 2000,

— 21. 2. 1991

— 22. 2. 1991

26:

21. 2. 1991

22. 2. 1991

26:

21. 2. 1991

22. 2. 1991

gr

Q: (gr) (gr)

/er?

er?

1. w. 2. n!

- /er!

er

— Le! 1 nóm e' 2 b<sub>0</sub> m

— 2 z d z p!

e x b' p!

— 2 z d z p!

con R z h — 1 d p, — s i' x. 6  
con) f.

con:

y! 1 2 ~ 2 e w;

1 b p ~ 2 d p?

29 and 21, 10, 10, 10,

29 and 21, 10, 10, 10,

29 and 21, 10, 10, 10,

29 and 21, 10, 10, 10,

6:

29 and 21, 10, 10, 10,

29 and 21, 10, 10, 10,

am:

D! c r — 20 200 p l ;

- d, d r ~ l u n,

r p ~ l u s o, — S c r,

d ° 20 b p s r l y ~ ?

6:

c p / b / , r c a / s n,

c - l - o - o - d

- 2 ~ r l l m u n

1 2 p e r 20 20 p l .

of  $\rightarrow$  m!  $\rightarrow$  g,

4  $\sim$  4  $\rightarrow$  30

- 6, 1, 1, 1, 1

0  $\rightarrow$  2  $\rightarrow$  2  $\rightarrow$  0!

4  $\rightarrow$  1  $\rightarrow$  1  $\rightarrow$  1,

c  $\rightarrow$  1  $\rightarrow$  2  $\rightarrow$  1

2  $\rightarrow$  1  $\rightarrow$  2  $\rightarrow$  2,

c  $\rightarrow$  1  $\rightarrow$  2  $\rightarrow$  1.

am:

~ h r l o u r ;  
1 b - c , 2 v , c p .

lf:

o ~ u p !  
- m j u r k !  
- h y e - l u b  
2 c o r n d ) o r ~ !  
- e r n d ; c o j o n ,  
p ~ r , c ~ d p h ?

h, — v, — w<sup>2</sup>,

z<sup>2</sup> r' z p p r o,

z p o' r c,

' z p p, e r w o!

Ch:

D r! i n d i r;

— r y' s h.

v', v r r r p f u,

d h r r l - w r.

o z<sup>2</sup> / i, z, p u,



$p, n, j \sim \text{Lernfall!}$

$- n, n \sim 2, n, n \sqrt{2},$

$20, c \sim n, L, f, n.$

6:

$e, c, m, l; e \sim 2, n, L, n,$

$c, n \sim L \sim a, b, s, n, f, n?$

$\text{Lernfall, } e, f, n,$

$c, b, e, l, o, n, o, e, l.$

am:

$f! \sim 20 \mu$ ,

$2 \sim 20 \mu \sim 10 \mu$ ;

$1 \mu \sim 1 \sim 10 \mu$ ,

$- 0 \sim 10 \mu \sim 10 \mu$ .

6:

$1 \sim 10 \mu \sim 10 \mu$ !

$2 \sim 10 \mu \sim 10 \mu$

$2 \sim 10 \mu \sim 10 \mu$ .

$10 \sim 20 \mu \sim 20 \mu$ ,

e. R. h. e. z. m. h. z. b.,  
z. z. f. j. y. p. u.  
e. b. e. a. t. h. u. !  
z. u. t. h. u. z. f. u. e. s.  
~ u. l. l. o. - z. u. u.  
- z. u. o. - z. u. - z. u. u.  
z. h. u. m. p. u. b. u.,  
o. b. ~ u. c. p. r. e. p. u. !

am:

—, c!° 2y 2y - 2b!  
v h d co e s m.

6:

h, co r — m 2 b!  
c e l e r e v r e m m?  
, c h, , c o e s m,  
, v h 2, r c o 2 y / c v,  
2 c e r b, r z e h e v,  
2 r s t p y p t - h d.

1. U. S., L. C. - i. h. i. n. l.,  
1. v. o. n. e. l. l. d.

Am:

1. r. m. - m. h. d.,  
2. - p. l. i. s. v. p. y. l. d.  
d. r. m., o. n. s. t. n.,  
v. v. - i. h.  
2. h. i. v. p. s. e. n. d. o.;  
p. c. o. i. s. t. v. l. i. e. s. o. o.  
n.

6: (—)

o → 2 r l e z h y g e i,

~ r l e z h y g e i,

z r l e z h y g e i,

- l s ; c . n o m b e r !

e r l e z h y g e i,

c z r l e z h y g e i ?

o r l e z h y g e i,

z r l e z h y g e i.

e r l e z h y g e i,

1.  $v, \delta$  2.  $\text{ffm} - \text{f}$ .

11.  $\text{gyc} - \text{v} \text{ } \text{v} \text{ } \text{v}$ ,

$e, \text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v}$ .

1.  $\text{we} \text{ } \text{v} \text{ } \text{e}$  2

$\text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v}$ ,

$\text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v}$ ,

$-\text{v} \text{ } \text{v} \text{ } \text{v}$ ;

1.  $\text{v} \text{ } \text{v} \text{ } \text{v}$  2.  $\text{v} \text{ } \text{v}$

$\text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v}$

$-\text{v} \text{ } \text{v} \text{ } \text{v} \text{ } \text{v}$

1234 56, 78 90 1011  
~ 1234 567890.

1234 5678 90;  
1234 5678 90;  
— 1234 5678 90.

1234 5678  
1234 5678 90;  
1234 5678 90;  
1234 5678 90.  
1234 5678 90 1011?



0, p h l r r?

D i m b, - y o i e,

b n i o n.

2 z b, c o D' z b g n,

e n h e - h e g l ) ~;

c r y z q d p n,

e z b e i o h - c.

i s e n n, z o b

g n z' p h p.

clab) o d r r r b  
- 2 h y o j o n e ,  
- i n n u r r p ,  
c r s r r y f e z .  
o r b r r r r z y ,  
e l o m b p r z y ,  
c r d b) - f u d - s i  
b e l) f a r r r o m j ,  
b r o z o - 2 l , o c r - r e y ,  
s l z , c o , e d - r ;  
e y u r , c o l r ,

- cos ~ A, e r b e f a u ~.

~ 2 m 2 / 1 ! j d . - b ;

2 a n 2 / 3 ~ f e d ,

~ , o - ) R f e ~ v e d ,

2 o e h ~ M - d d .

• - / f e , c o r 2 2 o e

o z e l / l h n 2 ~ n ?

' L e , ' 2 f e l l h v e

z o r 2 ~ n e l / v o n ?

$x^0, \text{vec}, \text{cov}$  etc?

$0, \text{I}, \text{I} \in \text{vec}$  etc?

$e^x, \text{log}$  etc?

$e^x - e^y \sim \text{exp}$  etc?

$\text{cov}$  etc,  $\text{vec}$ ,  $\text{I}$  etc?

$\text{vec}$  etc,  $\text{I}$  etc,  $\text{I}$  etc

$\sim \text{vec}$  etc,  $\text{I}$  etc,  $\text{I}$  etc

$\text{I}$  etc,  $\text{I}$  etc,  $\text{I}$  etc

$\text{I}$  etc,  $\text{I}$  etc,  $\text{I}$  etc

$\text{I}$  etc,  $\text{I}$  etc,  $\text{I}$  etc

$\text{I}$  etc,  $\text{I}$  etc,  $\text{I}$  etc



coy w/ser sh 2,

wt, 2-1/2 ft.

cont'd; - grub,

→ co'ner gl, enant.

d'curll' ) ~ w s h f u ?

holphel ~ ~ ~ v m ?

cr'v s ~ r s 2,

scr ~ ~ ~ v c s r e n y v m ?







unter uns!  
2. f, p u / u o,  
e r o d e / z w e c k,  
u h e r z e / u n,  
z i) l e b / i n E e d,  
D l e o n z f f u,  
z o n n e i n z e l d;  
z e f) z / z o,  
- c - z f, n o i e z / l o.

~ ~ ~ ~ ~, ~ ~ ~ ~ ~!

~ ~ ~ ~ ~

~ ~ ~ ~ ~!

~ ~ ~ ~ ~, ~ ~ ~ ~ ~,

~ ~ ~ ~ ~,

~ ~ ~ ~ ~.

~ ~ ~ ~ ~,

~ ~ ~ ~ ~,

~ ~ ~ ~ ~,

~ ~ ~ ~ ~.

~ ~ ~ ~ ~,

$\sim^c \sim \text{of} \sim \text{and} \sim \text{of} \sim$

$\sim \sim \text{of}, \sim \sim \text{of} \sim$

$\sim \sim \text{of} \sim \sim \text{of} \sim$

$\sim \sim \text{of}, \sim \sim \text{of}$

$\sim \sim \text{of} \sim \sim \text{of} \sim$

$\sim \sim \text{of} \sim \sim \text{of} \sim$

$\sim \sim \text{of} \sim \sim \text{of}$

$\sim \sim \text{of} \sim \sim \text{of}$

2. n:

v. p.

L<sup>2</sup> p.

~ p.

z p.

v. p.

6:

c p.

p p.

v p.

o 666 lunge?

r 2, 6, 1, 7 ~ 6 p,

' d, 2, 6, 1, 7, 6 p,

p 2 ~ 6 p?

2: cu:

2 p p

w r p,

r o L

w r 2 p;

p - v

~ per 1,

D! - 1 per

~ / 2 x:

2 ~ ~:

~ . per!

~ ~ per,

~ , per,

2 ~ - per

~ per.

6:

cos  $\alpha$ ,  $\sin \alpha$  -  $\rho$ ,

$\alpha$   $\rho$ ,  $\sin \alpha$ ?

$\sin \alpha$ ,  $\cos \alpha$   $\rho$ ?

$\sin \alpha$ ,  $\cos \alpha$   $\rho$ ?

$\sin \alpha$   $\rho$ .

$\sin \alpha$   $\rho$ ,

$\cos \alpha$   $\rho$ ;

$\sin \alpha$ ,  $\cos \alpha$   $\rho$ ,

$\sin \alpha$   $\rho$ .

$\sin \alpha$   $\rho$ .

српски и његов;

енергично и енергично,

— и макар по;

— и макар по;

и српски и његов,

— и макар по;

и српски и његов.

и српски и његов,

и српски и његов;

и српски и његов,

и српски и његов.





2 r j l e r

p, i o

g l e t r x i

D! r u u,

v b, e r!

2 i n:

v b. g e r,

e' c o z j o.

v b' s u e r

L e r s o d!

Mr. Lee,

Mr. Lee,

Mr. Lee,

Mr. Lee,

Mr. Lee

Mr. Lee,

Mr. Lee!

# VOR DEM TOR

gymn. u. d. p. 20.

~> Rechnung:

crer e / 20?

i:

1 2 20 50 / 20.

1.6:

$1.6 \rightarrow D' \text{ von}$

~~~ rechnerisch:~~

$1.1 \rightarrow D^2 \cos 2l / r^2$

1.7:

$1.7 \rightarrow 2l / r^2$

1 f:

co 4 energy?

~ h:

122 ~ h.

W:

Du ned ~ / x, p e l b e r

122 v h - e l o u,

- x e f \ f o f .

all:

es ist p,

U/dermal?

$v/2, v/4 - \dots$

ordnen:

$\dots, \dots! \dots$

i:

$\dots$

h:

e. l. v. m. 2000;

l. e. o. m.

2000 h. s. 2000.

completen!

h:

2. h. l. m.

h. o. l. d. s. v. m.



zu:

U, O, U, U, U, U, U!

2 U, ~ U, ~ U, ~ U, ~ U.

~ U, ~ U, ~ U, ~ U,

~ U, ~ U, ~ U, ~ U.

U, U, U, U, U:

U, U, U, U, U, U!

U, U, U, U, U:

U, U, U, U, U, U,

U, U, U, U, U, U!

$f$  zu:  $(y \delta)$

1 —  $\beta$ ! e! d! t! m! f,

6<sup>2</sup> z! n! b! y! n,

0: z! n! a!

1 v<sup>2</sup> z! h! o! p! n.

6 n! m! g! n!

— n! t! e! n! e!

$\delta$ :

z! h! n! ! 1 v! / m! g!

$\beta$ ! e! e! d! / m!

1.20, 1.000 m world  
1.000 m world.

1.20:

1.20, 1.000 m, 1.000 m!

1.20, 1.000 m, 1.000 m.

- 1.20/1.000 m?

1.20/1.000 m?

1.20/1.000 m,

- 1.20/1.000 m.

un: (62)

^ 2 2 n, ^ 2 n k,

— c y — u n s,

u — s, v p p s,

— o — v e t z ~ s!

b o v l m o ~ s!

— \ · l s, \ n v.

~ n, ~ e r g e l u n,

\ l v ~ n t n.

i'm:

1000, v ~ o ~ - l ~ m

o ~ p ~ n ~ r ~ f,

c ~ t, c, z ~ m,

1. L ~ n ~ s ~ p ~ n.

2. g ~ a ~ l ~ t, h ~ o ~ z ~ h ~ o

- s ~ b ~ o ~ z ~ u, w ~ g ~ z ~ ;

e ~ n ~ t ~ u ~ v ~ e ~ l ~ s ~ D ~ z,

- o ~ n ~ k ~ e ~ l ~ e ~ g ~ .

en un:

2. Du, 4! — 0 10 11 12:

6 2 2), 1, 2, 3, 4,

11 10 11 12;

1 2 3 4 5 6.

✓: (j ~ unred)

1! 0! 1! 2! 3! 4!

0! 1! 2! 3! 4! 5!

1! 2! 3! 4! 5!

- cor cor, eob, c. jgh.

unred:

ms, P<sub>1</sub>, ~ P<sub>2</sub>, R,

22 R h j m;

o p p p z o u r i o n l

~ n l l p p s o m

i:

v j t o ~ R r f;

o l l o, 2 m m m;

102 P, 10 r 4,  
u v - / um.

o. h.:

u m l z z

z u - p u,

z h l f p

z u b

z, p u!

z e v u,

z u i!



-, l<sub>0</sub>

o r c h,

o j' l e,

- j e h.

e ~ g h!

e ~ n!

r h - u - n

v o ) n.

n e v h,

n i n!

-, o e h

per et.

6-om.

6:

S o d z fr - D

p o b o z er, uer u;

R u h z h z;

\ S o t, z o p t,

f r ) z z u r x.

S e P o e r, l o e, —

— 113 —  
2 f h s, h e l; ;  
u, o ~ e e m c o,  
s. d) v e s - f u,  
e - b l e n u;  
D ~ u l p r o  
b ~ d f y r u g e l.  
m e r, s e r r  
D - g e p p e r.  
e <sup>2</sup> z e n b e t i n  
e ~ u p p e r.

ter o d) 2 z - m.

o l m, s p s ° m,

o b² o d s p c,

o v h 2 o e q u p h u,

o x c u o = - p u o c u,

o² e s t e r - d u,

o f o e y e r u,

o i n t h u o o h u

o b e o n p l.

o t, o! o u o c), u

o, 2 v - l e r p t,

0'60, 21 - 2

— 21 6 21 21 21,

— 6 6 6 6 6

21 21 21 21 21

65° 21 21 21 21

21 21 21 21 21

12 21 21 21 21

21 21 21 21 21

21 21 21 21 21

21 21 21 21 21!

am:

2 /, 2 e, / p p

in - p;

2 8' / e p p;

c, ~ h e s e r s v.

ellen, fu, r p p

v ~ n s o n;

o u o s o r o p p

- n o l e. n o p.

unl'ce.

ly-pr.

zhu G' ) / hu,

zhu hu, ve - hu,

zhu hu hu.

zhu hu hu hu,

- hu hu hu hu.

hu! hu!

hu hu! hu hu!

- hu hu hu.

、 $\sqrt{26}$ ) $2$ ,

$e_1 g^0$ 、 $\sim \sim \sim$

$2 \circ 2$   $\sim$   $n$ ;

、 $g$   $\sim$   $n$ 、 $)$   $2$

-  $\sigma$  :  $\sim$ 、 $e$   $\sigma$ 、 $e$ !

$h_2!$   $h_2!$

$h_2 \sigma!$   $2 \sigma!$   $2!$

$e$  |  $\sim$   $h_2!$



o a l z z' r o r o';

b h f v b, b h f m o,

- e v l n.

b h v, b h c n

- v n e n z n,

b! b!

b o! z o! z!

- d n e n.

-4v 0/ - 4!

0 2 0 / 0 4

u - u!

z 2 0 0 / 0 ,

- 5 - 2 2 - 0 :

h! h!

h 0! 2 0! 2!

f - u u.

↓ 4:

2 e, e z ~ S,

e r r z z / g,

- l q q L o p,

o ~ - z p, n.

- ~ m D ~ z d ~,

~ r z p L p,

1 k ~ j - o f,

e, l ~ ~ a b S g:

1 f L l, 1, 2,

~ ~ m p.

6:

1. 2. ~ 3. 4. 5. 6.

7. 8. 9. 10. 11. 12.

13. 14. 15. 16. 17. 18.

19:

1. 2. 3. 4. 5. 6.

7. 8. 9. 10. 11. 12.

13. 14. 15. 16. 17. 18.

19. 20. 21. 22. 23. 24.

with given

~ with 2/3

2000, 20,

0, 2/3.

Deriv, ~ 2,

1/2, 2000,

with 2/3,

1/2, 20,

year with 2/3;

2/3, 2/3, 2/3.

•:

geg<sup>2</sup>  $\sqrt{2}$ ,  
e.  $\sqrt{2}$   $\sqrt{2}$ !

6:

—  $\sqrt{2}$   $\sqrt{2}$ ,  
—  $\sqrt{2}$  —  $\sqrt{2}$ .

—  $\sqrt{2}$   $\sqrt{2}$ .

am:

cl ~ b r e s , - 2 0 w ,

v i g n e t t e !

- m ; a s o m e

g ~ u p e r !

' s u p e r p o w e r ,

~ t e r t - e r t - d ,

, l e g e t , ' u p c d .

e r b , 2 ~ 2 g r b ,

, r p l m 2 , 2 ;

- c d l , - l r ) , m ,

o n e l u o .

6:

→ w p f 2 a s / l a g ,

x → r i s o o j b .

x o o , s p e n e n

- e t p r u n - 2 l b .

~ 2 h y ✓ , p z u l b ,

2 l u , o g y , x e r u

a , e r e l u b

s z u n o x o j y u .





e  $\mathbb{R}^2$  g 0.

e  $\in \mathbb{R}^2 \sim \mathbb{R}^2$ ,  $\sim \mathbb{R}^2$ ,

$\mathbb{R}^2 \sim \mathbb{R}^2$ ,

-  $\mathbb{R}^2 \sim \mathbb{R}^2$

$\mathbb{R}^2 \sim \mathbb{R}^2$

$\mathbb{R}^2 \sim \mathbb{R}^2$

$\mathbb{R}^2 \sim \mathbb{R}^2$ ,

$\mathbb{R}^2 \sim \mathbb{R}^2$ ,  $\mathbb{R}^2 \sim \mathbb{R}^2$ ,

-  $\mathbb{R}^2 \sim \mathbb{R}^2$ ?

$\mathbb{R}^2 \sim \mathbb{R}^2$

$\mathbb{R}^2 \sim \mathbb{R}^2$ ,  $\mathbb{R}^2 \sim \mathbb{R}^2$

✓  $g_{\mu\nu}$ ,  $A_{\mu\nu}$ .  
126 ~  $\mathbb{R}^4$   $\mu, \nu$ :  
6 cont 2, 120  $\mu, \nu$ ,  
e.g.,  $\mathbb{R}^2$   $\mu, \nu$ .

Ans:

$\sigma \sim \tau$   $\mathbb{R}^2$   $\mu, \nu$ !  
4! ~  $\mathbb{R}^2$   $\mu, \nu$ ,  
120, 120  $\mu, \nu$ ,  
 $\rho^{\sigma} - \text{cont } g_{\mu\nu}$ ?  
e.g.,  $\mathbb{R}^2$   $\mu, \nu$ !

— 'em / R / m;

c / m, o / m,

— n e o / z / i / m.

6:

— m; a / z / h / n,

o / m / N / m!

c o m / c o, e m / m,

— c o m c o, n m / m!

o / m / f e / z / o / m

p / m / m / m!

$M, O, \text{no} \sim 2$

,  $\text{no} \sim 2$   $\text{no} \sim 2$

$\text{no} \sim 2$  -  $\text{no} \sim 2$ ,  $\text{no} \sim 2$ ,

$\text{no} \sim 2$  -  $\text{no} \sim 2$   $\text{no} \sim 2$ .

,  $\text{no} \sim 2$   $\text{no} \sim 2$

$\text{no} \sim 2$  -  $\text{no} \sim 2$   $\text{no} \sim 2$ !

$\text{no} \sim 2$   $\text{no} \sim 2$   $\text{no} \sim 2$

,  $\text{no} \sim 2$   $\text{no} \sim 2$ ,

$\text{no} \sim 2$   $\text{no} \sim 2$   $\text{no} \sim 2$ ,

$\text{no} \sim 2$   $\text{no} \sim 2$   $\text{no} \sim 2$ .

$\text{no} \sim 2$   $\text{no} \sim 2$   $\text{no} \sim 2$

de wien o phi

gheer) 2 cut de

~ f r s.

g z l, v r r. cyb;

~ i n s k d,

~ l, r o s j h u;

~ v ~ n - d v, d,

~ r s v - l v, c u.

~ g r h, z b x d.

d! j o z b l e n' - d

~ n r d h a (d) p u.

o. - ter - yu  
e o b a s - w e n ,  
c x t , R e h r e n ,  
r z w e l , w t o n ;  
c x f h l l h s s e  
- e r g t g t ,  
- x l h , x o n  
- w p d - z r g t .

Am:

146 11 20 20 20

22 20 20 20 20

20 20 20 20 20

20 20 20 20 20

20 20 20 20 20

20 20 20 20 20

20 20 20 20 20

20 20 20 20 20

20 20 20 20 20

20 20 20 20 20





-  $f \sim r^{-2}$  zentral  
-  $\ln r$  /  $\sim r$ ,  $\ln r$ !  
h,  $\ln r$   $\sim \mu \ln r$ ,  
-  $\ln r$   $\sim \ln r$ !  
 $\ln r$   $\sim \ln r$   $\mu$ ,  
1/2  $\sim \ln r$ .

an:

$\ln r$ ,  $\ln r$   $\mu$ ,  
( $\ln r$ )  $\ln r$   $\mu$ ,  
 $\ln r$   $\ln r$   $\mu$ ,

Sen 2, 4.

Sen 2, 4, 2, 4

Sen 2, 4, 2, 4

Sen 2, 4, 2, 4,

Sen 2, 4,

Sen 2, 4,

Sen 2, 4, 2, 4

Sen 2, 4, 2, 4,

Sen 2, 4, 2, 4

Sen 2, 4, 2, 4,

Sen 2, 4, 2, 4,

6 für 0 (20) p d,

- für n d, c b d.

0 m r! 1/2 g, d,

1 d p d, n d!

n w e z f r d e z. m

c o f b e y — w b y d z e?

c o n d i e r y — d h?

6:

b e y ~ z p z e p o i — f l f h?

an:

10 ~ 2, / 100 ~ v.

6:

M ~ N! lco 2/ger?

an:

l ~ 6, 5000

15 ~ 20 ~ 6.

6:

unbekanntes

250-Minuten

- 1/1, - 1/2

so weiter.

an:

10/10 - 1/2

unbekanntes.

6:

vz /, e, v, o, z  
j m' m' v e r i b o j.

an:

10 r 100 - b - h a r f r u,  
c, f o o z m, f p u t o.

6:

v m' r, j, v!





$e, f \sim \sim, g \sim \sim 25;$

$\sim \sim \sim, \sim \sim \sim,$

$\sim \sim \sim \sim \sim \sim.$

6:

$e, c \sim \sim, \sim \sim \sim, \sim \sim$

$\sim \sim \sim, \sim \sim \sim.$

an:

$\sim \sim \sim, \sim \sim \sim,$

$\sim \sim \sim \sim \sim \sim.$

h, e 2d ent, 2y - 2,

„ferthron“.

6222e feth.

# STUDIENZIMMER

422 Ge 2 We.

4:

10, 1, 1e-2,

1 - 1/2, 1/2,

2, 2, 2, 2, 2, 2

2, 2, 1, 1, 1, 1, 1, 1.

2, 2, 2, 2, 2, 2

2, 2, 2, 2, 2, 2

-  $n$ ),  $2\pi$ ),  
,  $2\pi$ ),  $2\pi$ ) ~

-  $n$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  
~  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  
 $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  
 $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ).

$2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  
 $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  
~  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  
~  $2\pi$ ),  $2\pi$ ),  $2\pi$ ),  $2\pi$ ).

Dezember  
1. 2. 3. 4. 5.  
6. 7. 8. 9. 10.  
11. 12. 13. 14. 15.  
16. 17. 18. 19. 20.  
21. 22. 23. 24. 25.  
26. 27. 28. 29. 30.  
31. 1. 2. 3. 4.

$m, C, J \sim 2 \mu L$

$\frac{1}{2} \mu \sigma$

$\rightarrow \mu, C$

$r^2 \mu, e, \mu$

$C, \mu$

$e \mu^2 \mu$

$e \mu \mu; \mu$

$\rightarrow \mu, \mu, \mu?$

u. D. g. b., u. <sup>2</sup> b. - u.,

u. D. g. b., u. <sup>2</sup> b. - u.

u. D. g. b., u. <sup>2</sup> b. - u.,

- r. e. n. e. b. m.

u. D. g. b.,

u. D. g. b.,

u. D. g. b.,

u. D. g. b.,

u. D. g. b. - u. l.

u. <sup>2</sup> b. - u.

u. D. g. b., u. <sup>2</sup> b. - u.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.

2. 2. 2. 2.



ff: Rbra'c.

cc, ff,

cc l) / s!

· - 'c, - eent - zll?

- ff: Rbra, all!

e, Dn, eoff,

zent Pco, e, e / w.

vall - zll! s - e, e, e

- zll: Rbra, all!

o, 2 e e f u l e n,

6, — o e 2 n,

— o e l e n!

9 ~ f u v e n p u n

u, 1/2 ~ s. l. e.

^ s l e l e

20, f u 2 l e.

p u n u, e 2 6 l l s,

, u l e, 2 l e n d.

u c o 2 0, 1 0 2!

~ e ~ n ~ p p e?

•  $\gamma^{\mu} \beta \alpha \nu \lambda$  ?  
 $\alpha' \sim \beta \alpha \nu - \lambda$  !  
 $\sim \alpha \beta \gamma \delta$  ,  
 $e \cdot \lambda \sim \alpha \beta \gamma \delta$  !  
 $\alpha \beta \sim \gamma \delta \lambda \mu \nu \rho$  !  
 $\gamma \delta \cdot \alpha \sim \beta \gamma \delta \epsilon$  ,  
 $\lambda \mu \nu \rho \sigma \tau \theta \rho$  .  
 $\gamma \delta \cdot \epsilon \beta \nu \rho \sigma$  !  
 $\lambda \mu \nu \rho \sigma \tau \theta$   
•  $\alpha \beta \gamma \delta \epsilon \zeta$  .

26: ( $r^2 n$ )

$\sim \text{pr}$ !

$\sim \text{pr}, \text{pr}, \text{pr}$ !

$\text{pr} \sim \text{pr}$

$\text{pr} \sim \text{pr}$

$\text{pr}$ !

$\text{pr}, \text{pr}$

$\text{pr}$

$\text{pr}$

$\text{pr}$

$\text{pr}$ !

er \ NT er

g f / ker.

6:

h / um<sup>2</sup> w,

h<sub>1</sub> ~ h<sub>2</sub> / h:

o v e<sup>o</sup> p<sub>1</sub>,

er) v<sub>1</sub>,

o s l p<sub>1</sub>,

u e l) v<sub>1</sub>.

ab/nt

1-nt,

~nt

-nt,

~nt

~nt.

ye/nt,

~nt!

ye/nt,

~nt!

$\lambda_2 \mu_2 \mu_2 \mu_2$

osl!

$\mu_2 \mu_2 \mu_2$

$\mu_2! \mu_2!$

$\mu_2 - \mu_2 \sim 20!$

$\mu_2 \mu_2$

$\mu_2^2 \mu_2$

$\mu_2 \mu_2 \mu_2 - \mu_2 \mu_2 \mu_2$

$\mu_2 \mu_2 / \mu_2 \mu_2$

$\mu_2 \mu_2 \mu_2$

fun fun.

be, per

~ 0 0 ~ 2 ~ ?

— 0 9 / 2

2 6 ) 2 ~

1 2 2 2 ~ !

2 2 ~ 5 2 2 2 ~

~ 0 0 0 ~ !

~ 0 0 ~ ?



~ ~ f' o' ~,

af 2',

p ~ r p o' ~,

W' of 2'!

2' ~ h p d,

g' - o ~ d d

~ r p r b' - ~,

- j ~ f b'.

f r / e r 2'!

r d j ~ r b' b'!

eg, e1/mos.

1 or 2 2 2 2!

✓/

e e e e!

✓/

1, 2, 2, 2, 2!

1/2, 1/2, 1/2, 1/2 - 1/2

2, 2, 2, 2.

ulj lo:

cy'ni co g<sup>2</sup> zu jerd?

lf:

eo a<sup>o</sup> lo m!

~ lva o f? noo v v d.

ulj lo:

1000 ~ g<sup>2</sup> zu!

1000 ce g<sup>2</sup> zu.

6:

and ep?

alg. co.

hgt/vm

l<sub>1</sub>; ec - o M<sub>1</sub>

; c/dt/erz,

→ i' co d M<sub>1</sub>.

6:

✓ 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

11, 12, 13, 14, 15, 16, 17, 18, 19, 20

21, 22, 23, 24, 25, 26, 27, 28, 29, 30

31, 32, 33, 34, 35, 36, 37, 38, 39, 40

41, 42, 43, 44, 45, 46, 47, 48, 49, 50

1/2:

~ 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10

1/11, 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20

6:

co' 2 2 2 2 2 2 2 2?

2/3 2/3:

1 1/2 2 2 2 2 2 2!

- e 2 2; e 2 2, co 2 2,

• 2, e - 2 2 2;

e 2 2 2; e 2 2.

— e 2 2, co 2 2,

2 2, 2 2, e 2 2,

2 2 2.

6:

$e \sim d \sim v, - \text{ } \rho \sim \nu \sim v?$

als 6.0:

$u \sim c \sim \rho, v.$

c)  $\nu \sim \rho, \nu \sim \nu$

$\rho \sim \nu \sim \nu$

$\nu \sim \nu \sim \nu, \nu \sim \nu$

$\nu \sim \nu \sim \nu, \nu \sim \nu$

$e \sim \rho, e \sim \nu$

$\nu \sim \nu, \nu \sim \nu$

- 2, 3, 4, 5, 6, 7, 8, 9, 10,

11, 12, 13, 14, 15,

16, 17, 18, 19, 20,

21, 22, 23, 24, 25,

26, 27, 28, 29, 30,

31, 32, 33, 34, 35,

4:

1, 2, 3, 4, 5, 6,

7, 8, 9, 10, 11,

12, 13, 14, 15,



2/3 Co.

- 1/2 of the

Co) 29 mg/L,

e No, & Co d

1/2 of the

1/2 of the

2 Co, 1/2 of the

1/2 of the

- 2 of the, 1/2 of the

2 of the

1/2 of the

- *Handwritten cursive script*

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- *Handwritten cursive script*

- *Handwritten cursive script*

6:

- *Handwritten cursive script*

- *Handwritten cursive script*

intelligem,

imordel!

coşqum

anocem!

elco:

imordem,

imordel!

elco, imordem?

6:

1021, 1024, 1027.

12 1/2 p m m

102 ~ 10, 1027.

2102, 210, 210,

~ 1021020.

1027:

1027 ~ 1027, 1027,

1027 ~ 1027, 1027,

1027 ~ 1027

6:

e l m n o p q r s t u v w x y z

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

199

200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400

401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500

6:

e<sup>2</sup> f<sub>2</sub> p<sub>2</sub> h!

- 2 p<sub>1</sub> c b e g?

e<sup>2</sup> f<sub>2</sub> p<sub>2</sub> h!

2/3 6:

\ C<sub>2</sub> v<sup>2</sup> 1, 0, 2 p<sub>2</sub> h

, 0 0 f<sub>2</sub> p<sub>2</sub> h:

\ C<sub>2</sub> v<sup>2</sup> 1, 0, 2 p<sub>2</sub> h

6:

၂၀၂၆/၂၇

၂၆:

၂၇

၂၈

၂၉

၃၀:

၃၁

၃၂

-  $\beta$   $\epsilon$ ,  $\gamma$ ,  $\delta$ ,  $\rho$ ?

alg. lo.

comp.  $\beta$ ,  $\epsilon$ ,  $\gamma$ ,  $\rho$ ,

$\epsilon$   $\epsilon$   $\gamma$   $\rho$ .

$\epsilon$   $\epsilon$   $\gamma$   $\rho$ ,

-  $\epsilon$   $\epsilon$   $\gamma$   $\rho$

$\epsilon$   $\epsilon$   $\gamma$   $\rho$ ,

$\epsilon$   $\epsilon$   $\gamma$   $\rho$ .



6:

— 6 2 2 ~ 2 2,  
2 2 2 2 2 / 2 2.

6:

6 0 2 2 ! 1 2 2 2 2;  
2 2 2 2 2 2 2.

6:

1 2 2 / 2 2 2,  
2 2 2 2 2 2 2.

~ 4.2, a ~ 2!

1 ~ 1 - 2 1/2 ~ 2 1/2.

2/3 1/2.

c e u, - u, D u,

e / p / 2 / u;

2 2 u, e, f

p 2 ~ 2 1/2 1/2.

6:

10 - m, e g e l ;

← e i n d f u r !

25 60:

g', 2 h o l e o n

29 f e 2 p u

o 2 h o ~ .

co e, f u 2 o o n ;

1, 2 ~ o e, 1, 6 ~ u ;

2 / ~ o p u f .

Den  $\rho'(\gamma)$ ,  
eigenen  $\rho$ ,  
-eigenen  $\rho$ .  
Wahl, Wahl,  
wahl, Wahl!

26:

$\rho$ , Wahl  
wahl, Wahl!  
 $\rho$   
wahl

n2!

con, lren

con pnn!

gnn lren

vlr on

gnn.

vlr on

vlr gn,

gnn l<sub>3</sub>

gnn s.

gnn l<sub>3</sub>

lmax;

-'pe

lwe ve

en, se,

en, a,

c) b. m,

h, p. m,

ve n.

u u!

f b m!

b h

g d n v t  
e r e n t,  
g f z l h  
j v e l s,  
v o r p u s,  
e f s,  
o, z z  
z j h,  
l j o n  
j o r t  
w e r z.

$-e\beta R$

$g^{\mu\nu} \gamma_{\mu} \gamma_{\nu}$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu} \sim 2$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu}$

$\gamma^{\mu} \gamma_{\mu}$



1) R L u

e f s i

w r u

x, 2 2,

r g u

x, 0 u,

r g u;

e f u,

e f u

w r g u,

w r 2 e

25. 60.

2. 20! — 2, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20!

`x` `n` - `20,

`b`, `g`, `c`, `p`, `o`

W, P, J, O

- 9 J, W, W,

→ 0, 62, 100, W

en, d, g, z, p, o!

→ 100, 1, 1, 1, 1, 1,

6 of 2, 1, 1, 1, 1, 1.

2, 1, 1, 1, 1, 1, 1, 1,

1, 1, 1, 1, 1, 1, 1, 1.

6: (vdr)

v, e, w, d, n?

ge - v, d, r

e, v, h, l, p, n,

-e - Ge, v, p?

# STUDIENZIMMER

U. v. l. l. o.

U:

- n l ? 2 ! a - v e l m ?

v. l. l. o.

1 l o.

6:

2!

2/3 6:

9/26 - 2/20.

6:

2 1/2!

2/3 Leo.

— f u d e v.

1<sup>u</sup>, 2<sup>l</sup>, 3<sup>u</sup> M;

e e, b e, M,

u 1 o e h u 2,

2 u, 2 a b t u e,

e u b h s g r o e,

1, 2 u l e s 2 2,

2 2 u, g f e n,

— u e, v y - 2,

2 h 2 h e o g h;

de, open, l,  
sub, coem.

6:

inter e, c, l

o r r e s o l v e.

1 v j d, 2 j p r,

j h, 2 - e y j o.

co n, d v c p m?

m o e! o m!

e · \ r p r,



Der ~, ~ ~ ~,

~, ~ ~ ~,

~ ~ ~ ~ ~.

~ ~ ~ ~ ~,

~ ~ ~ ~ ~,

~ ~ ~ ~ ~

~ ~ ~ ~ ~,

~ ~ ~ ~ ~

~ ~ ~ ~ ~,

~ ~ ~ ~ ~

~ ~ ~ ~ ~.

Druck, (N) und,

Druckerei;

Druckerei,

Druckerei.

Druck, (N) und,

Druckerei;

Druckerei,

Druckerei;

Druckerei,

Druckerei, (N) und.

uly lo:

- 0. 2. 4. 6. 8. 10. 12. 14. 16.

6:

- 0. 1. 2. 3. 4. 5.

1. 2. 3. 4. 5. 6.

~ 1. 2. 3. 4. 5.

2. 3. 4. 5. 6.

- 1. 2. 3. 4. 5. 6.

1. 2. 3. 4. 5.

als Co.

- 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

6:

e, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

als Co.

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

6:

$c \approx 2 \text{ km/s}$

$\sim 0 \text{ km/s}$

$\sim 6 \text{ km/s}$

$2 \text{ km/s}$

$10 \text{ km/s}$

$2 \text{ km/s}$

$6 \text{ km/s}$

$2 \text{ km/s}$

$10 \text{ km/s}$

$6 \text{ km/s}$

Meven'ys,

,) ~ 76 ev!

M, co 5 2 L 2 2 2

o v, ~ 2 2 2 2!

M, co 5 2 2 2 2 2,

o c 2 - 2, o m 2 - 2!

M - v, c 2 2 2

, 2 2 2 2 2,

c, 2 2 2 2

, C 2 2 2 2!

2 2 2 2 2!

① 2 6 10 2e!

① - 2 6 10 2e!

- ① - 2 6 10 2e!

2 6, 2 6: (f) (u)

o! o!

e 2 6 f f

1 2 ~ d,

2 2 2 6 f;

6 f f, 6 f f!

~ 2 2 1 2 6 f f!

rk

, rk 10/24,

-rk

x, rk 10/24,

rk

rk,

rk

rk,

rk rk rk!

rk

rk,



22.2.05,

→ 2h

Lines!

2h 20.

9<sup>2</sup>, 1, 2

f ~ 2

2, 0, 1, 6 - 1h

2h 6h!

2, 1, 1, 1,

0, 1, 1

com-offen,  
— 6. d. n.

2, 5, 2 e r h j g;  
; a ~ r r, e r n b;

1, 2 b p f b d b;

e e ~ r g r g r b.

d \_ b / p

d b e r j g o.

1, r ~ s ~ 2 o;

d - e, 2 v ~ l,

e f r s r r r,

— r, r r r r,

e j o, s' f.

r r e p,

— r, e r,

r, e r, r e n!

6:

— c o, e m r b?

uf Co.

eg 2 - 2 b.

6:

~ ~ ! \ L i ~ 2 b

- 4 / \ 2 2 2 0 ~

co 2 h ~ f:

f, u s e 2 - e;

~ 2 on W / h 2 0.

uf. lo.

1- P x j e r e d u e r,

s e n o u / b - / u i

c r i t e r e r,

— ° e v e r / L

6:

e d u r P c r u e r,

z d e b e c d j k u e r,

i e v e r d y z i.

e r r e b e r z L e r,

- 90 12 12 12 12 12;

1 1 1 1 1 1 1 1;

1 2, 10 - 1, 10.

1 1 1 1 1 1 1 1,

1 1 1 1 1 1 1 1,

1 1 1 1 1 1 1 1

1 1 1 1 1 1 1 1.

1 1 1 1:

1 1 1 1 1 1.

1 1 1 1 1 1, 1 1 1 1,

2 letters not 2's,  
in the, could be 2's.

6:

could be 2's?  
could be 2's, could be 2's,  
could be 2's?  
could be 2's, could be 2's,  
could be 2's, could be 2's,  
could be 2's, could be 2's,  
could be 2's, could be 2's,

~ 200, 0 ~ 200 4

2 ~ 200<sup>2</sup> ~ 200) 100,

~ 200 ~ 200,

100 ~ 200, 100

100, 100, 100, 100, 100,

~ 100, 100 ~ 100!

100 100:

~ 200 100,

200 100.

100, 100, 100 ~ 100,



С / 024 2 2 30 2 2 2.

6:

С, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

— 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,

als Leo:

✓!

6:

- 25 21!

6, 1/2 20 21:

er 21, 20 21 - 21!

er 21, 20 21 20 21,

er 21, 20 21 21!

er 21, 20 21 21,

er 21, 20 21,

1.  $\rightarrow$   $\nu$   $f$ ,  $f$   $\nu$   $l$ ,  
-  $f$   $l$   $\nu$   $l$ !

$\nu$   $l$ :

$\nu$  -  $c$ ,  $c$  /  $\nu$ .

$l$ :

$e$   $\nu$   $\sim$   $\nu$   $l$ ;

$\nu$   $l$  /  $l$   $\nu$ .

$\nu$   $\nu$ ,  $\nu$   $\nu$ ,

$\nu$ ,  $c$   $h$ ,  $e$   $c$ .

df Co:

$\int_1^c 2x dx, \int_1^c x^2 dx,$

oder  $\int_1^c x dx$ .

$\int_1^c \frac{1}{x} dx = \ln c - \ln 1$

$\int_1^c x^{-1} dx = \ln c$ .

6:

1)  $\int_1^c x^2 dx = \frac{1}{3}c^3 - \frac{1}{3}$ ?

2)  $\int_1^c \frac{1}{x^2} dx = -\frac{1}{c} + 1$ ?

3)  $\int_1^c x^{-1/2} dx = 2\sqrt{c} - 2$ ?

4)  $\int_1^c \frac{1}{x^3} dx = -\frac{1}{2c^2} + \frac{1}{2}$ ?

blidenfuhl,  
-p° ~ p25?  
d9 cistozyl,  
a20) m es chur?  
wrt, a Lz ~ R w H,  
m h' r t p z i  
e ~ c w r t, p f u - w t,  
~ p d, ~ ?) ~ z z i  
e c t g u t z i l e r,  
i s t b u d o - e r.  
c o - e y u o z o b s v ?

y, w, C, m, A?  
o, r, h, r, o, l, e, f, u?  
in te col.

als lo.

ordere in

→ r \_ r r r r?

• d ~ te u r r r.

e, h, h, o, r, r, r, l, o, r, r.

6:

c 9 0 ~ 1 2 3 4,

— n — l — g — w.

1/2 1/2:

1 ~ 2 3 4 5.

6:

— ~ b — h, e, 9 10 11!

e f g h i j k l

• l e, c o, 1 2.

12 v/2 p/1,  
2 e r p r i .  
2 o 2 o 2 p g t,  
u v g o j, n a  
o e n o l e i f o  
v n r u u r o o .  
o z ~ h i o t  
J p e e l f g u !  
z p h i n f u z e n  
- l e o c e z p u !  
g f r J z e y i f ,





→ 2007 - 1/1/11!

4:

g 2 6 4, 1 2 1, 1, e.

2 2 2 1 2, 2 2 2 2 2 2,

1 2 2, 1 2 2 2 2.

2 2 2, 1 2 2 2 2 2;

° 2 2 2 2 2 2 2 2 2,

- 2 2 2 2 2 2 2 2;

- 1 2 2 2 2 2 2 2,

2 2 2 2 2 2 2 2 - 2 2 2,

^ C - 0 5 2 ~ 6 2 h  
- 2 ~ 6 / 1 6 6 e ~  
-, 0 6 6, 1 1 0 1, p ~.

als lo:

- 2 v, 2 h 6 e h  
~ 9 2 5 f 0 ~  
e f - 0 2 6 / w  
~ 2 7 ~ 5 0 2 1 e f!  
2 5 2, 0 0 2 f  
• l ~ 2 1 p l!

v. b) 2 r. on 2f

53, 2, b. <sup>mo</sup> p. 1,

- 74 - p. n - 11.

6:

~ 1!

v. b. 6:

e. b) 2 r.!

2 - ~ r. v. v.

1. f. v. g. 1. n. d. i. n.

1.  $e, r, p, s$  usw.

o  $g, n, r, l$  usw.,

b  $\sim$   $m, p, n, g, h,$

-  $e, h, l, t$

s  $\sim$   $n, g, z, h,$

o  $t, u, y,$

o  $z, f, o, z, u, k,$

o  $p, u, o, l, p, l, u,$

o  $\sim$   $e, o, l, i, t, u.$

b  $\sim$   $s, e, p, w, o, l, e,$

z  $\sim$   $b, y, w, e,$

- 1, 2 can be  $\mu$ ,

$\mu$  can be  $\mu$ .

$\mu$  can be  $\mu$ ,

$\mu$  can be  $\mu$ .

6:

can be  $c/2$ ;

$\mu$  can be  $\mu$ ;

$\mu$  can be  $\mu$ ?

уф. ло.

е, в, а, н, м, с, о, е, в.

о, г, к, м, с, в, н, м,

о, г, е, л, с, м, с, о, н,

е, в, в, м, с, о, е, в.

ф:

1, в, м, о, 1, 2, 3

о, г, к, м, с, в, н, м,

- с, в, а, н, м, с,

е, в, м, о, н, м, с, в, н, м;

$v_1 / v_2 \sim 2 \sqrt{2} \pi$ ,  
 $v^2 \rho \sim 2$ .

df Co.

$z \sim z_1 z_2, \Gamma \sigma, \beta_2,$

$\sigma z, \beta_2 \mu \delta;$

$\Gamma \sigma \epsilon \rho \sqrt{z_2},$

$\sigma \Gamma^\circ \mu \beta_2 \epsilon \beta.$

$\cos z \mu! \beta \cdot x - \beta$

$- \sqrt{\beta} - 2 \sqrt{z}, i^2 \epsilon;$

$\partial_{z_0}, \cos, \beta \rho,$



• e h c m z ?

c 1 b o z d f e n ,

z n r l l , z ?

1 v j - v ~ l u z ,

o 1 h f j l .

h h ! o o o o o ,

- l e l z , d z !

1 o - o : ~ n , j e d ,

• o ~ v , s e m z e

l r o o z b r n o z l ,

- s o p d z h c e .

6:

obren?

ly lo:

rnrl.

coel ~ w?

coel ~ n,

)-, h ~ n?

oe e<sup>2</sup> ~ n ~ d!

co- e p e f s j q n?

eb, co e o n,

erly ~ u d / on.

2 2, ~ s<sup>2</sup> n!

6:

v b / z z, ~ j z.

ly lo:

~ n n e d r,

~ e l / f b z.

~ r, r v e ~ - v;

~ w z o v ~ b f.

~ r e l ) r

~ 50 - r r c f !

1 Q ~ r r c f ;

2 r r c f / r r c f !

Q r.

r r c f : ( r r c f )

r r c f - r r c f ,

r r c f r r c f ,

o  $\rightarrow$  260- $\mu$ km

0.5  $\mu$ km

— 0.1  $\mu$ km

0.2  $\mu$ km

— 0.1  $\mu$ km

— 0.1  $\mu$ km

— 0.1  $\mu$ km.

— 0.1  $\mu$ km,

0.1  $\mu$ km,

— 0.1  $\mu$ km,  $\mu$ km,  $\mu$ km,

— 0.1  $\mu$ km

o g o - h u ~ v i n k u g u ;

1 ( l u s ) v o d h u ,

- 1 - ) 0 / 2 L e s u ,

1 v o d s t e v i !

~ g u v s .

g u :

1 v o d s t e v i ,

- ~ ~ ~ s u ,

~ ~ ~ s t e v i ,

~v r b h m.

df lo:

~v r b h p o!

^ o ~v r b h.

o ^ r o d g y h?

g:

1 u. r, r r r ~!

1 ~v r r r r,

er re - h r h;

z z<sub>n</sub> — P r d h u i ;  
z m c o s b x o m .

z f l o .

e r l r n s r d .

z e :

z p , z z e l :

z q z m , q z e n

- v r o a f e n .

- i z u f u t v



201/20, 20/20

- 20/20, 20/20

20/20, 20/20

20/20

20/20

20/20

20/20

20/20

20/20

20/20

g:

$\sim \mathbb{R}^{2n-1} \setminus \{0\}$

$\partial \mathbb{R}^n, \partial \mathbb{R}^{2n}$ ?

g:

$\mathbb{R}^n, \mathbb{R}^n$

$\mathbb{R}^n, \mathbb{R}^n$

g:

$\mathbb{R}^n, \mathbb{R}^n$

$\mathbb{R}^n, \mathbb{R}^n$

- 2<sup>2</sup> r; lo;

, 0/ - , ~

ly lo:

e<sup>l</sup> r s' l u p;

o v r / f z o.

z:

1 v a 2 o - l;

o l<sup>s</sup> v m

~ o l - f m

~ zuordnen.

als:

$\mu \cdot \nu, 621 - zu \text{ } \nu$

$\partial \text{ } \nu \text{ } \nu \text{ } \nu \text{ } \nu$

$\nu \text{ } \nu \text{ } \nu \text{ } \nu \text{ } \nu$

$\nu \text{ } \nu \text{ } \nu \text{ } \nu$

$e \text{ } \nu \text{ } \nu \text{ } \nu \text{ } \nu$

$\nu \text{ } \nu \text{ } \nu \text{ } \nu$

$e \text{ } \nu \text{ } \nu \text{ } \nu$

$\nu \text{ } \nu \text{ } \nu \text{ } \nu$

-1/κ<sub>1</sub>, 1/κ<sub>2</sub> - E,  
N<sub>2</sub> - 2.

ε<sub>1</sub> 1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub>,

ε<sub>2</sub> 1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub> 1/κ<sub>4</sub>

μ<sub>1</sub>, 1/σ<sub>1</sub> - h<sub>1</sub> 1/κ<sub>1</sub>,

ε<sub>1</sub> 1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub> 1/κ<sub>4</sub> 1/κ<sub>5</sub>.

μ<sub>2</sub> 1/σ<sub>2</sub> - h<sub>2</sub> 1/κ<sub>1</sub>

ε<sub>2</sub> 1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub> 1/κ<sub>4</sub> 1/κ<sub>5</sub> 1/κ<sub>6</sub>,

ε<sub>3</sub> 1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub> 1/κ<sub>4</sub> 1/κ<sub>5</sub> 1/κ<sub>6</sub> 1/κ<sub>7</sub>,

1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub> 1/κ<sub>4</sub> 1/κ<sub>5</sub> 1/κ<sub>6</sub> 1/κ<sub>7</sub> 1/κ<sub>8</sub>,

1/κ<sub>1</sub> 1/κ<sub>2</sub> 1/κ<sub>3</sub> 1/κ<sub>4</sub> 1/κ<sub>5</sub> 1/κ<sub>6</sub> 1/κ<sub>7</sub> 1/κ<sub>8</sub> 1/κ<sub>9</sub>,

~ 7160 102 271.

· 606, 112

- 106, - 20 - 0:

e 100, e 100,

- 200 - 100;

- 100 - 100,

e 100 - 100 100.

e 100, 100 - 100,

200 100.

100 100 100 - 100,

100 ~ 200 100,

er 2 \ 1 \ 2 \ 2 \ 2,  
el, el! → e2 b ve.

er 2 \ 2 \ 2 \ 2 \ 2,  
er 2 \ 2 \ 2 \ 2 \ 2.

er:

er 2 \ 2 \ 2 \ 2 \ 2.

er lo:

er 2 \ 2 \ 2 \ 2 \ 2,

er 2 \ 2 \ 2 \ 2 \ 2

- p v n o l y m .

g:

v' s' ? - e,

o r, v ~ v e p ~ l z.

u f l o:

D, ~ e h b,

v r ~ v l o v h!

e o, e r v o' l o,

c o z ° v g z m / l o;



lcoen-1en,  
~ Mcdjerd gr.  
d b 9024 h  
nd h' b reya.  
l b g e r t e n;  
e m 2 2 m g r!  
o s c k w,  
w h o c f e r,  
e r b u o s,  
e i d, s c o r u g r;  
d s o f r o t u b,

sew, 2-2-26!

2:

e d r v / y e o n!

r e v v, o f - n d

e, c o n g y s c o o f,

n r p b n D z h.

2/2:

e d r v - l e s t!



es er, ee, ~ ~ ~ b!

S N, e r r p n;

S r; ~ ~ ~ h.

g:

~ ~ ~ p r w.

~ ~ ~; ~ ~ ~!

b r ~ ~ ~ r f e n.

alg. Co.

$\rightarrow \text{opt } 1, \rightarrow \text{opt } 2$

$\text{Co} \neq \text{opt } \mathcal{M}$ ,

$\rightarrow \text{opt } 2, \sim \text{opt } 1$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

$\rightarrow \text{opt } 1, \sim \text{opt } 2$

g:

$\partial \sim \partial \text{Kro} \sim \text{Kro}$ .

alg. lo.

$g \sim \text{Kro} \sim \text{Kro}$

$\text{Kro} \sim \text{Kro}$ ,

$\text{Kro} \sim \text{Kro} \sim \text{Kro}$ .

$\text{Kro} \sim \text{Kro}$ ,

$\text{Kro} \sim \text{Kro}$ ,

$\text{Kro} \sim \text{Kro}$ ,

$\text{Kro} \sim \text{Kro}$

g:

$f, 12 \rightarrow 52 \text{ in } h,$

$2, 20 \rightarrow 200.$

$\rightarrow 1, 2, 5, 10$

$10 \sim 100 \text{ in } h?$

$e \text{ in } 100,$

$\rightarrow 2, 10, 20, 100.$

$20 \sim 100 \rightarrow 2,$

$10, 20, 100.$

alg. Co. (l)

1.  $v^0 \sim \dots \sim \sigma$ ,

2.  $\epsilon \sim \dots \sim \sigma$ .

(4)

1.  $v^0 \sim \dots \sim \sigma$ ;

2.  $\epsilon \sim \dots \sim \sigma$ ,

3.  $\epsilon \sim \dots \sim \sigma$ ;

4.  $\epsilon \sim \dots \sim \sigma$ .

$\dots \sim \dots \sim \sigma$ ,

$\dots \sim \dots \sim \sigma$ ;

$\dots \sim \dots \sim \sigma$ ,



e. \ R u.

$\wedge \rightarrow \rho \subset \mu$

$\sim \rightarrow \rho \rightarrow D / \text{len},$

$- \text{C} \wedge \rightarrow \text{b} \text{A}_1$

$\text{A}_2 \rightarrow \text{h} \text{on}.$

$\phi \text{and} \text{C} \text{u} \text{len};$

$- \text{C} \wedge \text{D} \text{C} - \text{D}$

$- \text{C} \text{e} \text{D}$

$\circ \rightarrow \text{C} \text{u} \text{len};$

$- \text{C} \wedge \text{D} \text{C} \text{u} \text{len};$

$\text{e} \rightarrow \text{b} \rightarrow \text{h} \text{z}.$

~ 12068 1222,  
e ~ 1222 1222;  
j ~ 1222 1222,  
r ~ 1222 1222,  
g ~ 1222 1222,  
- 1222 1222,  
c ~ 1222 1222,  
j ~ 1222 1222.

g:

e d g u d i z d e, c - a.

ly lo:

h, l, l, e, i, u,

- h o z e i u.

g:

i, g, s, v, b, o, a ~ h.

ell, s, c ~ n, y, u,

f, c, o, s ~ h, j, z, u?

ulj lo:

co 1 n, ° m p.

je:

1 n p z E n,

1 20 1 2 2 m p u 4 2,

2 2 2 2 v 90 f 2!

ulj lo:

o c.

\ f d - n.



6:

$cs^{\circ} \sim r^{\circ}!$

uf. lo.

$cs - \text{er} \text{ f.}$

$r^{\circ} \text{ i. n. e. } \text{V. d.}$

$2 \text{ ch } L_e, \text{ ch } y$

$r^{\circ} \sim \text{r} \text{ or } \text{ry}!$

6:

~ ~ ~ ~ ~

lv, /, /, /.

- 'v' / / ;

1 6 ~ v, /, /.

~ h b, / - ;

1 c f a m o.

7: 6:

~ ~ ~ e' ) ~ ;

~ e e / /, ~ e e / /.

6:

amre e<sup>2</sup> 2?

cye, ml - m?

ly lo:

r ~ ~ w,

° J P, k.

g ~ ~ r ~ ~ j

~ ~ ~ ~ ~

~ ~ ~ ~ ~ c,

~ ~ ~ ~ ~



- 2, 1, 2, - 11 - 25;

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

# AUERBACHS KELLER IN LEIPZIG

*St. Peter*

*lg:*

- *~ h~? ~ ~ ~*

- *~ ~ ~ ~ ~*

- *~ ~ ~ ~ ~*

- *~ ~ ~ ~ ~*

ben:

e d ~ e; e y ~ d h i x,

l ~ e y, ~ o z.

by: (p r ~ z o c s ~ n l)

e y e y ~ o!

ben:

e d z!

h:

h, v, o!

h:

h, v, o!

h, v, o!

h, v, o!

h:

h, v, o!

h, v, o!

6:

с е р а б е л,  
б з н о л о в о б е л.

7:

— л, з о л, н о л л!  
л л л л л!

8:

л л л л л!



e, / ~ e n g v.

o, o, o ~ w o / l e i;

r ~ ~ a b e n.

r, o, o ~ e n

~ g r u, ~ w s t.

h: (o)

g r u, h w,

w o r w s t p r o s e.

6:

$2\mu\text{H} \sim 20!_1 - \text{es} / 2 \sim!$

6j:

$2\mu\text{H} 20 - 20!_1 \text{es} / \text{es}!$

6k:

$2\mu\text{H} 20 - 20!_1 \text{es}!$

$2\mu\text{H} 20 - 20!_1 \text{es}!$

$2\mu\text{H} 20 - 20!_1 \text{es}!$



6.

4, 6, 6 — — — — — 6!

1-2-3-4-5-6

6, 6, 6, 6, 6 — — — — —

7, 8 — — — — —

8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

100

100

100

100

100

o r, l d ~ p o

ben: (s ~ d p r e)

o s! o s! p d v!

^ z ~, f, c o j m

d ~ o r,

- o ~ r o, d g e p,

j z ~ l, c o j b m.

w l! ~ d l ~ f p!

- o ~ v ~ r ~ l! ?!

\ o .

- a - 1 P numb,

W - 5 L - 4,

4) ~ 1/2 ~ 1/2,

so e. p.

in 1/2 ~ 1/2;

es 08 - 1/2 ~ 1/2,

so 1/2 ~ 1/2.

2: (1/2)

so 1/2 ~ 1/2.

ben:

b l → 2, b l → 2,

- o l o e l p;

f d', f y', e 2 y 2,

- i r d h p;

b l r u r h r d h,

u e l e r r p,

o l r r r.

20:

o / 1, 1 R 1.

ben:

o n ~ n R 2 ~ n

\ R phi,

o ~ x e - H, - n,

- \ w phi

e n, n ~ 2:

2! 6 e 5 2 y ~ 1,

o / 1 6 1 R 1.

2o:

o z b t R v.

4:

o), (u u g l s!

· v — R n d,

~ n u v l l f s!

ben:

o f c o z e z d?

*ren:*

zudrenen!

epurp-p-vl;

stippen!

onypm

lf-lylohs

*lylo:*

zopnenen

zfp/v;

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

2. L... ..

2. ... ..

... ..

... ..

... ..

... ..

... ..



ben:

1.  $n \sim n \sim \sqrt{0}$ ,

2.  $n \sim n \sim n \sim n \sim n$ ;

$6^2 / \text{ge } 2$ .

by:

$n \sim n, n \sim n \sim n \sim n \sim n \sim n$ !

$n \sim n \sim n, - n \sim n \sim n$ .

h:

lco b e, her ~?

h:

o v ~ n! v ~ e r 20

p, o ~ n t e y,

~ u g u ~ l, o m e' n o.

o z ~ v ~ e ~ l e r 20,

o z f f - p l e r o.

ben:

wolfer<sup>20</sup> p, 1 a!

ben:

L.

by:

n n, 1 j b!

alg. lo. (y l)

~ L. p. e. L. o. h. n. s.

- c. b. v. r. n. n. z.

l:

— e. s. p. o. , r. z. n. !

o:

f. e. n. j. n. b.

o, alg. lo. s. o. n. o. c.

c. o. z. n. t. n. s. r. l. o. ?

2/3 Leo:

· - w, 5 D / 7 / 7 / 7 / 7?

g1 ~ 2 ~ 2 ~ 2 ~ 2 / 2 ~

o, p, 5 / 5 / 5.

2/3:

^ 2 / ~ 5 ~ 5 ~ 5 ~

4/5:

^ e ~ g1 5 / 5 / 5 / 5 / 5?

2 / 2 ~ 2 ~ 2 ~ 2 / 2 / 2 / 2 / 2?

2/3 Leo:

27<sup>2</sup> r r u p b!

r 2 r e f 2 f 2.

S o h n c b f j o n,

f W o, r n t e r g h n.

~ r t j n l y.

2/3: (✓)

e r o e g! \ y d!



lg:

$\rightarrow \wedge \text{cm} \sim \text{H}_2\text{O}?$

alg. lo:

$\rightarrow \sim !, \text{W} \cdot \text{p}, \sim 1.6 \cdot 20.$

lrs:

$\text{W} \cdot \text{J} \sim \text{L}!$



uly lo.

crum, m.

6.

→ D ~ n ~ so f!

uly lo.

1 ~ n ~ o ~ p ~ x,

2 ~ z ~ r ~ o ~ e ~ ' ~ p.

o.

- a ~ n ~ n ~ d,

1 ~ 2065 m

by:

2 1/2 ~ 6 1/2 r e c p b?

~ 6.5 ~ 6.5

2 1/2 ~ 6 1/2 (6 1/2)

~ 6.5 ~ 6.5

1 ~ 2065,

~ 6.5 ~ 6.5,

o o o / m o o



2/3 Leo:

201-202

am 20/21

↳ vers 202,

iD ~ 20/21

-a → 20/21,

-i → 20/21.

es 20/21

↳ 20/21/2021.

-zu-2021,

1. am 20/21,

1.  $m - 1, j, l$   
2.  $h - p, d,$   
-  $a - b / m, n,$   
-  $a - b / l.$

1.  $m - y, n$   
2.  $d, c, r, p, l.$

2.  $o: (h, p, c)$

1.  $m - y, n$   
2.  $d, c, r, p, l.$

lj:

la! la! ea z!

la:

—°-ter l s n!

la:

ff, la - Wol!

128:

- n, l, j! - n'c!

129:

129 ~ 20, 1, l, j, m,  
c ~ c ~ b ~ c ~ c.

130:

129 e / e ~ c!

व्यं. लो.

1. लल → ; अद्युग);

० द २ २, १ १ अ २ २ ०

० १ २ ३ ४ ५ ६ ७ ८ ९ १०

६.

→ १ २ ३ ४ ५ ६ ७ ८ ९ १०

७.

१ २ ३ ४ ५ ६ ७ ८ ९ १० ११ १२ १३ १४ १५ १६ १७ १८ १९ २०

→ १ २ ३ ४ ५ ६ ७ ८ ९ १० ११ १२ १३ १४ १५ १६ १७ १८ १९ २०



$e_1 \perp e_2$ ;

$\sim_1 D e_2 \sim$

$\rightarrow$   $e_1$ : ( $\checkmark$ )

$b^2 \int \sim, a_1 \text{ gr.}$

$\rightarrow$   $e_2$ :

$\sim \sim \sim$ !

ben:

co<sup>o</sup> 2<sup>2</sup> pu?

1 2 2/1, 60 ~ m?

ben:

eat 2' d ~ m u h c u g f u.

uf lo: (w d ~ u m. / l p)

~ d, co c u g f 1 / z m?

ly:

o r w / r e e r \_ r h e ?

ly lo:

r f - r t e l .

ly: (y l y)

r! e b d g r , r h e r e n .



als Leo: (j/ber)

- 1?

ber:

1-2000

- 126<sup>00</sup>, 0!

als Leo: 1; 1, 2, 3, 4, 5

1-2000

ben:

~ n / g e h e r e r

e r d s t l - l u .

~ l u t z u r u n h y e r ,

d r e h t . m .

h. (n) r l f l o o r (g ~ s t)

120 f i , ~ z i n v i l ,

w v ~ z o l l e d !

ulj lo: (✓)

1° → ✓ uer lo.

ur:

~ , ~ , σ v 10 β!

10 - ~ , 1 2 5 → j lo.

ulj lo:

! ! 2 2 u 2 5

~ ~ 5 5 pt.

pc! → 2 2 5 pt!

2. Schenken?

2. Ser:

2. Ser! → 1. r. H.

Dr. Schepf - gel.

2. Ser. (2. Ser. per)

2. H. - Ser!

2. Ser. per;

2. Ser., 2. Ser.,



2.  $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

~  $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

$\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

~  $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

$\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

~  $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

$\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

als Leo:

→ M, e r v i s b!

6 km E d.

→ (6 km)

5. 2. 1971,

s o b s e r v i e!

uly lo:

e L o i l , o i n , o c o ' p n !

6:

1 - 2 6 , n y l n .

uly lo:

n - 1 6 , 1 y e n

1) n n n h e n .

6.  $(\ln p, \ln q, \ln r, \ln s, \ln t, \ln u, \ln v, \ln w, \ln x, \ln y, \ln z)$   
2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0!

2/3 6.  $(\ln p, \ln q, \ln r, \ln s, \ln t, \ln u, \ln v, \ln w, \ln x, \ln y, \ln z)$

→ 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0! 2.0!

1 ~ per:

ln a, ln b, ln c, ln d, ln e, ln f, ln g, ln h, ln i, ln j, ln k, ln l, ln m, ln n, ln o, ln p, ln q, ln r, ln s, ln t, ln u, ln v, ln w, ln x, ln y, ln z.

6.

co° e o ? w! r y! - L s!

- z, e, r, s, w.

4:

o, r e f f ~ u u u!

4:

1 e l, r o ~ u y b o o u r.

4:

o, x i, - ) f z,

- x o ~ u f b o u u?

uf lo:

g, - l'c lo!

h:

log!

g - 5 n 22 umi!

ben:

cl -, - a g r umi!

*res:*  $(\rho \sim \rho \rho \rho^2 \rho,$

$-\rho \rho \rho \rho m)$

$\rho \rho! \rho \rho!$

$\rho \rho \rho! \rho \rho \rho!$

$\rho \rho \rho, \rho \rho - \rho \rho \rho \rho \rho \rho \rho.$

*res:*  $(\rho \rho \rho \rho \rho)$

$\rho \rho \rho \rho - \rho \rho$

$\rho \rho \rho \rho - \rho \rho!$

$\rho \rho \rho - \rho \rho!$

6 fuyd - 02 ~ 1 ~

128:

c v r? c p o z r!

13:

c w r! o, r!

14:

- h r? / r!



ben:

$x \beta \alpha \beta \alpha$

$\sigma, \alpha \sim \beta! \sigma, \alpha \beta h!$

$\backslash \beta \alpha \alpha \backslash \alpha$

$\backslash \alpha \alpha \backslash \alpha \alpha \backslash \alpha \alpha$

alg. (0-2)

$N^2, \alpha \rightarrow \alpha \alpha!$

$\rightarrow \alpha \alpha \rightarrow \alpha \alpha \rightarrow \alpha \alpha$

~ 2012/6, per la ent.

6:

con?

ren:

cl?

lj:

ceen?

ben: (j b)

- e 2 1 2 x!

ben:

- a ~ p, r ~ p - 2h!

pl ~ f, 1 b ~ r!

by:

~ , d v ~ , co: p?

lg:

$c \cdot n^2 \sim c_1 n^2$ ,

$\sim v / \log n!$

Der:

$1 \sim b \log n \sim n^m$

$\sim \log \sqrt{z} \sim m$

$\sim \log z \sim \log$ .

$\log^2$  of  $\log$ .

$\sim \log c \cdot c \sim \log$ ?

h:

hca-oo, n-z.

h:

vee, oh, a.

ben:

uoa-2~h?

↓  
r:

~ 0 2 ~, 2° ~ 0 2 !



6:

v e p i e L u j u s o u !

g b e v, i r o u

z r c f s o u ?

u, i, s, r, s, c, u?

- g l, o e r h

c, e, b, h, v, s, u?

s, v, c, e, i, u, c, b!

j, i, z, h, v, g, e, i

o, i, u, - o, - e, r, v, b

l, n, r, e, - u, a, g, l, e, i?



als Leo:

~ Leo ~ f h e, E m!

o, m, n, d ~ m 2;

~ f 2 ~ h u,

~ ~ ~ m.

6:

1 - 0.

alg. Leo.

$2! \sim 2, \rightarrow 2e$

$- \sqrt{-} \sqrt{-} \sqrt{2i}$

$u \text{ of } 2 \sqrt{2} \text{ so } 2e,$

$h \sim \sqrt{2} \sqrt{-} \sqrt{h}$

$\sqrt{e} \text{ of } -e \sim 0$

$\sim \sqrt{2} \sqrt{e} \sqrt{e},$

$\sim \sqrt{e} \sqrt{2} \sqrt{e},$

$\sim \sqrt{2} \sqrt{e} \sqrt{e}, - \sqrt{e} - \sqrt{e},$

$\sim \sqrt{e}, \sqrt{e} \sqrt{e}, \sqrt{e} \sqrt{e};$

$e \cdot e \sqrt{2}, \sqrt{e}$



6:

cre  $\frac{1}{2} e^{-t} \cos t$

$\sim \frac{1}{2} \ln | \cos t |$

1/2  $\cos$ :

$e^{-t} \cos t \sim \frac{1}{2} \ln | \cos t |$

$\frac{1}{2} \ln | \cos t | \sim \frac{1}{2} \ln | \cos t |$

$\ln | \cos t | \sim \ln | \cos t |$

$\frac{1}{2} \ln | \cos t | \sim \frac{1}{2} \ln | \cos t |$

$\sim \frac{1}{2} \ln | \cos t |$

$\frac{1}{2} \ln | \cos t | \sim \frac{1}{2} \ln | \cos t |$

-so, coypu,  
-<sup>2</sup> n cen de!  
-Lob f p l;  
-Lob / de.  
-w w c.

b, d ~ p p l!  
e, ve! e ~ n l!

f ~ m.  
-z, h / 2?

1 W:

✓ 20,

0<sup>2</sup> 20

12 m f 20!

1/2 lo:

0 ~ 100 c, 12 m?

1 W:

— ~ 15, 100 m.

uly lo: (y l)

o l r e b e, j w m?

l:

— y z l, o, t h e s!

uly lo:

~ , ~ e o t o o r e s

• z e ; ~ , n s l w!

j ~ m:

— s v o, m a,

cos  $\sqrt{r^2 L^2} z^2$

1.  $\sqrt{r^2}$ :

$r^2 L^2 z^2$

2.  $\sqrt{r^2}$ :

$r^2 L^2 z^2$

3.  $(r^2) z - z^2 \sqrt{r^2} \sqrt{r^2}$

$- r^2 z^2$ ,

$- r^2 z^2$ ,







-x zu:

»1 v w!«

z u o,

z p e!

g r g u!

b i u,

- w g u.

u f l o:

c o e o!

*in*: (2/1-2/1)

$c \sim e, \sim d,$

$\sim 1, \rho, \sigma, \nu, \dots$

$\sim \sigma / \nu - \text{b b b s.}$

$\rho \rho e b!$

$\nu \sim e, \sim d,$

$\sim e \sim \nu / \nu?$

*df* *co*: (1)  $^2 \sim \nu \sim \nu \sim \nu$

$\sim \nu \sim \nu?$

nh-ny:

\\_nhll!

\\_nhll~ll,

\\_nhll~no!

df lo:

p lo v!

\\_nh:

~ce ~r,

-g p ~o!

$\sim \text{st} \sim \text{df} \text{ loj of}$

6: (Ch 9/3 ~ R p p p,  
) R ee p p p, ee) S R d d d)

cos 1? CD ~ d d ee

f / ) z p p p!

- 1, 2 v ~ p p e R,

- b v p p p!

D c 1 / s p p p,

c 1 - c 2, s / p p,

1 b  $\rightarrow$  o c p p p!

e z d v e s r e u!  
p r r; e c r - z u?  
w o r ~ r z y f t ~ r  
~ u h s e r r e o z?  
- k o l r e ) s r e?

u f l o.

~ r; c ~ r i ) l o o n C d,  
- b a r e k d,  
e r o - c o p p o c.  
l r o p p r o s,

1.  $\sigma \sigma \sigma \sim \rho \rho \rho$ ;

-  $\sigma, \rho, \rho, \rho$ ;

$\sigma \rho \rho \rho$ !

$\rho \rho \rho \sim \rho \rho \rho, \rho \rho \rho$

-  $\rho \rho \rho, \rho \rho \rho$ .

$\rho \rho \rho \sim \rho \rho \rho$ ,

$\sim \rho \rho \rho, \rho \rho \rho$ .



1. W: (C2 b en cen waz enopl

2,

W<sup>2</sup> d f lo — ~ 22 b f)

— 1 — 2 — 4,

220-24

1 ~ 1 ~ 1!

622 22/2 ~ 2-22 62 f 22,

22 622 f.

$n! - p!$

$1 - \ln - \ln^2,$

$1 - 2\ln - \sqrt{\ln} \ln$

cf:  $(n \sim p)$

$\ln n! \sim n \ln n.$

cf.  $(s, n \ll n)$

$\ln n! \sim n \ln n - n + \ln n!$

1. W:

-c-52d,

-c-1)2d,

-<sup>2</sup>-pau!

6: (0-2)

2-6-6-2-2-1-1-1!

2-1-1-1-1-1-1!

df Co: (z -  $\mu$  f)

$\sim$ ,  $\sqrt{20} \sim 4.47$

$e - \sqrt{20} \sim 4.47$

no, change to  $\sigma$ ,  $\sigma$ ,  $\sigma$ ,  $\sigma$

1 - 20,  $\sigma$   $\sigma$   $\sigma$   $\sigma$

20,  $\sigma$   $\sigma$   $\sigma$   $\sigma$

no.

122:

1! 1! 1! 1!

er r! M 03!

w/ ~ r0, w/ 1/2!

M0 r!

lf - rlf lo wve.

co. e r?

ca <sup>e</sup> r r?

co — r r e r?

cap) ~?

lsh

nope!

6W<sup>2</sup>z<sup>2</sup>l<sup>2</sup> ~ no - fl<sup>2</sup> l<sup>2</sup> D<sup>2</sup>l<sup>2</sup>,  
df l<sup>2</sup> - ~ m, n over.

df l<sup>2</sup>: (cl<sup>2</sup> ~ cl, ~ \ z' xz', v<sup>2</sup> -  
l, z<sup>2</sup> - l z<sup>2</sup>)

y! y!

end - l!

es Herz!

-igo,

W, ego,

jeve.

n, B - R - top M.

under R, R! go. e!

under R - R!

cos R, - R, j,

R - e R!

29  $i \sim \omega / \omega_f$ ?

$n_9, 2 \text{ oder } 1 \text{ min?}$

2, 9  $\sim \omega_f$ ?

0, 1  $\text{PK, oder min?}$

1, 2  $\text{L:}$

$\sim \omega, \gamma \sim \omega \text{ b!}$

0, 1  $\text{d} \sim \text{belo.}$

$c^2 \text{ h} \sim \text{h} \text{ min?}$



uly lo.

l n o n d e y - e s ;

e l . - - c o j ,

e r s / p e r .

D i n g , i e d e l ,

o s ~ l e ) f l ;

e n o f h a i n t / u j h i

e b e z m , g l - n i ?

- c o ~ b o l l , ~ , / v o n ,

^ s v v - n j h i

e r e r , v , o r t h l e r ,

o In In lgr cr.

122: (lye)

o - ye w 1 y;

o 1 ~ L m o n E x!

222: lo.

~ n, c, u, v!

1. 2. 3.

$\omega_1^2 \omega_2 \omega_3 \dots \omega_n^2$

1. 2. 3.

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$

$\omega_1 \omega_2 \omega_3 \omega_4 \omega_5$



1. 2.:

~ 20, 1 2 3, 4 5 6.

2. 3.:

~ 20 20 1 2 3 4 5 6!

2 20 1 2 3 4 5 6;

1 2 3 4 5 6.

1. 2.:

2 20 1 2 3 4 5 6,

2 1 6 5 4 3 2 1,

1. D/2 R vob' gnd;

1. → m ~ z h m.

✓

2. c - r u p u h d

- n, d r c, l - g e m.

als lo:

1. ~ 2 l o<sup>2</sup> - p 2<sup>0</sup>;

2. ~ R m e t e r A.

p e r n, p e s t,

- r R - 10 ~!

1. 2, 20<sup>er</sup> per, f ~ no-fel  
con b2 2; 2<sup>er</sup> b2, 20 ~ /  
~ 1, 20 / L, - 2 26. f / W<sub>6</sub>  
~ 20<sup>er</sup>, f, 20<sup>er</sup> 2 ~ 20, 1 /  
Cen -, b2 20<sup>er</sup> 20<sup>er</sup> 6 20<sup>er</sup> / f, 1 /  
b.

6: (j r f l o)

~ , 2 v; 6<sup>o</sup> e 6<sup>o</sup>?

e L f, 1, 20<sup>er</sup> per,

~ 20<sup>er</sup> 20<sup>er</sup>,

2 v und, so pr.

alg. lo.

1 Co! e. → j. Di;

1 → 1 ~ — für w!

620 s y ~ 2 r b o v h,

er' der c p s n.

~ alg, 2 ~ r o j k.



*1. B:* (220 rlo lW, e<sup>2</sup> D/ewm)

g r b y!

o ~ v j u,

- f o r z,

- e v d s,

- b e y ✓.

u, h!

o b l - o o,

- d, s,

v o u - n,

- f M:

- mine,

- fine.

e·e·e·e·e!

6:

Peut, 1, 2, 3, 4, 5.

1/2 1/2:

e·2·2·1·1,

1·2·1·1, — 2·2·2·2·1·1;

1·2·2·2·1·1,

an einer  
Wahlproblemen.

unbeendigt.

- and j, j,

pe - e, e - e

N<sup>2</sup> g c w j d.

- j - d w j d;

a - j - e - e - e?

f - w - w, c - c - e - e,

- e - e - e - e - e.

122: (L/P)

122 all

\ 00/,

\ 2p d u m!

- a / e n t,

2' 6 p u t,

\ 26 → 0 m.

6:

c o o t 6 J l p ~ ?

- ' v 2 \ ~ l p l u.

Perd, 12 ~ 202

Seit 160 ~ 170

1870:

m, m, - the 1870!

1870 ~ 1870, - 1870

1870 ~ 1870;

1870 ~ 1870/1870:

1870 ~ 1870,

1870 ~ 1870.

1. 2, 2 für j, m, z, t ~ h, z / j, z,  
o, b, f ~ ~ v, e, l, w, y, g, l ~ ~ l, r.

→ h, z, l, m, j!

- f, o, z, s, e, z, y, l, s, i

o, z, z, l, e, y, - e,

→ p, l, b, z, z, i?

1. 2, 2 ~ ~ o, l, f, h, z, o.

~ h, z, o, l, e, e, l, l, ~



als Lo. (1/4)

~ r - p - o p l m;

g r b ~ w o r l d m;

e r, r l p r ~ - j o e l.

~ e r b n ~ 1 2 p o p p;

- u e p e b e r n m s p;

a) r e - 1 - 2 - e p l.

4:

o p - r ~ 2 ~ p r p!

e h u e a n j r!





# STRASSE

cf. *was* *str.*

cf:

*z* *z* *z*, *er*, *er*,

*z* *z* *z* *z* *z*?

*was*:

*z* *z* *z*, *z* *z*,

*z* *z* *z* *z*.

622) - 1.

6:

122, 90 100 200!

— 100 1 100.

6 — 6! = - 1000,

— 100 100 100.

100 100, 100,

100 100 100!

100 100 100,

100 100 100!

Obwohl sie es,

einmal!

die Leo's.

6:

2, 4, 6, 8, 10!

die Leo's:

2, 4?

6:

67 ~ 4 ~

1/2 60:

er: 6 n S M l h,

1/2 6 n b e l

1/2 2/2 n f ~

i ~ 2 n f e r,

e n l i / ~ n;

8 1 2 1 ~ p!

6:

• 8. 1/2 L 0.1.

2/3 L 0.1:

• 8. 1/2 L 0.2 L 0.1,

• unter 1/2 L,

- 1/2 L, - 1/2 L,

- 1/2 L, 1/2 L,

1/2 L / 1/2 L.

6:

~ ~ ~ ~ ~

o, p, q, r, s, t, u, v, w, x, y, z!

- e, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z!

c, l, e, o, b, h, u, y

z, y, x, w, v, u, t, s, r, q, p, o, n, m, l, k, j, i, h, g, f, e, d, c, b, a, z!

- z, y, x, w, v, u, t, s, r, q, p, o, n, m, l, k, j, i, h, g, f, e, d, c, b, a, z!

7: 6:

u, v, w, x, y, z, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z!

1, 2, 3, 4, 5, 6, 7, 8, 9, 0, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z!

→, p, w - effm.

Q:

→, → b, f, c, s,

u ~ l, l / y

— ~ p, l, h, j, b, m.

vs. lo.

→ p, l, g, l, b, c ~ h, f, o;

o, u, i, b, s, j, l, e, o:

o, o, l, l, → k, j, r, o?



Leit 1-20,

scribes, 21

pen 2000,

e 2000-2000

constant of 20.

6:

2000-2000.

2/3 Leo:

$f \rightarrow g \rightarrow go:$

$1 \rightarrow 2, 2^2 \rightarrow 2^3$

$2 \rightarrow 2^2 \rightarrow 2^3$

$2 \rightarrow 2^2 \rightarrow 2^3$

$1 \rightarrow 2 \rightarrow 2^2$

4:

$2 \rightarrow 2^2 \rightarrow 2^3$

$2 \rightarrow 2^2 \rightarrow 2^3$

$2 \rightarrow 2^2 \rightarrow 2^3$



2/3 Leo:

~!

6' ✓ ~ ~ ~ ~ ~

2<sup>o</sup> ~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

4:

~ 12?



120 ~ 10 cm.

1.

# ABEND

~ ~ ~ ~ ~

www: (nyl lbe - sree)

122000, c1 - d,

c2 - 2 po!

\ o p o l c u e

- o r l e 2;

e n t, R ~ g u s o m

\ c n o d l - m p o:

u.

ulf lo. G.

ulf lo.

2, 2y 0, 2!

G: (2 ~ m g y n)

1 u p, o v e n!

ulf lo. (2 p v c)

1 h e r e 2! — ~

1.



6: (√ 0 gpc)

~ ~ ~, 0 e yz,

~ 9 9 2 ~ ~ ~!

~ ~ ~ 2 y, 9 0 ~ ~ ~,

~ 9 5 4 ~ ~ ~ 2 ~ ~ ~ gpc ~ ~ ~!

0 ~ ~ ~ ~ ~ 0 ~ ~ ~,

~ ~ ~, ~ ~ ~!

2 9 ~ ~ ~ ~ ~!

2 9 ~ ~ ~ ~ ~!

~ ~ ~) ~ ~ ~ ~ ~ ~ ~ ~ ~.

~ ~ ~ ~ ~, ~ ~ ~, ~ ~ ~

✓ Le-zyl R' l' n r q n!

o l, D! ~ r s r l

g - g s r n r o p n!

f, e u l ~ z i n r b

z s h z, z u r o n,

z o n l, e r x e p b.

1 b, r h, e r z b

\ b - e y r p o o n,

\ m p n k b

~ r s ~ r p ~ l ~ z b,

~ r ~ e j e r l o ~ n.

— x! — x! — x!

— x! — x! — x!

— x!

— x! — x! — x!

— x! — x! — x!

— x! — x! — x!

— x! — x! — x!

— x! — x! — x!

— x! — x! — x!

— x! — x! — x!

— x! — x! — x!

sonst jenseits!

- es! co 2 p 2 b 2?

o n b, v p n!

co - es 2? co' e 2 y e 2?

sonst 4! 1 m p / u.

v n v 2 ~ j u e l l?

v e o, - k e j p o,

- b v 2 s o h j l o!

2 1 ~ j s t e r e l l?

- 126 ~ 212,

0 5 6 7 8 9 10!

12620, 100 - 100!

1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

126: (100)

100! 100 6 5 100.

10:

1! 1! 1 100 100!

25. 100.

$x \sim \sqrt{b} \cdot \log x,$

$120 \subset \mathbb{Z} \sim \mathbb{Z}.$

$f(x) \sim \mu_2 \sim f,$

$12 \sim \sqrt{1}, \sqrt{1} \sim 10^{\sim};$

$14 \sim \sqrt{1} \sim 2,$

$2 \sim \sqrt{1} \sim \mathbb{Z}.$

$f \sim \sqrt{c} \cdot \sqrt{c}, -f \cdot f.$

6:

1 c o / , ° 1 ?

2/3 60:

W r f ?

2 w r f ~ z y / a n ?

e n r 1 ~ w b ,

1 t z ~ n g

- v , c ~ v / f m .

1 2 l , e r 2 f - e !

1 y ~ n l , v r ~ x e m

у феленту з з - едезо еј.

→ п! се!

з себелу се

Дзгоу - јоу;

- 1012

с д 1 з ~ 2 во 2,

с гелу, се - се

се - се!

→ п!

а.



www: (2 ^ a)

- i - j; - e p r

o v e l d s.

- . d n - c n / e o.

- ' v - , , c o / o m

, - / , , z n ~ n D z.

v - l ~ j n ~ n p ~ n m

v d ~ l b l b a c u!

o b l ~ j o ~ , n b ) - p .

- a ~ r ~ r ~ r ~ r

r ~ r ~ r ~ r ~ r

r ~ r ~ r ~ r ~ r

r ~ r ~ r ~ r ~ r

- r ~ r ~ r ~ r ~ r

r ~ r ~ r ~ r ~ r

r ~ r ~ r ~ r ~ r

r ~ r ~ r ~ r ~ r

—o、n/fh,  
f、o f/R✓,  
2、o o n,  
~h/p.

、o v n p,  
、h n n,  
s n f h o,  
e s<sup>2</sup> z o n n.

endge' f p,

h f n o y

- cal ~ 2 h p

2 h 1 b.

\ o r g p, h u

- o m p h o u,

' 2 h p o m,

h u ~ h u.

o v h i ~ f, ~ n e h ~ p w -  
w e z n b.

o n d e z n b z z ?

1 z o d n y p o ~ f.

· d c e n ! c o n c e n o ?

f U b h e s ~ b e,

- v z n p e s.

e n d ~ z o <sup>h</sup> n v e

1 e n c, 1 v - s!

c o · e ? z 1 n z ! z,

— 0 2 1 2 2 / p 2!

~ 2! 2<sup>2</sup> ~ / e b

2 2 6 l u n 2.

o 2 v, n g?

2 2 1 2 / p 2?

o (y) 2 5 - 11 ~ 2 4.

o 2, ~ 2 2 2 2!

2 2 2 2 2 2 2 2.

2 2 2 2 2 2, 2 2 2?

e 2 2 2 2 2 2,

~ 2 2 2 2 2 2;

und zu dem.

Der,

der

der. Der!

# SPAZIERGANG

Uz von 5-100.  
100 Uf lo.

Uf lo:

Uz von 1! Uz von 2! Uz von 3!  
1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-8, 1-9, 1-10!



6:

co 2? com 10 per — o?  
— m 10 1 2 2 2 2!

2/2 6:

1 2 2 2 2 2 2 2 2 2  
c 1 6 m 2 2!

6:

2) er co 10 2 2 2 2  
p 2 2 2 2 2 2 2 2!

uly lo.

ent  $\rightarrow$ ;  $\sim z$ , l W  $\sim$  pl,

$\sim$   $\sim$  l 20 pl!

in  $\sim$  de  $\sim$  jz

2 l W  $\sim$   $\sim$  jz,

h  $\sim$   $\sim$  l  $\sim$  p,

pl  $\sim$   $\sim$   $\sim$   $\sim$

-  $\sim$   $\sim$   $\sim$   $\sim$   $\sim$ ,

re  $\sim$   $\sim$   $\sim$   $\sim$   $\sim$ ;

-  $\sim^2$   $\sim$   $\sim$   $\sim$ ,  $\sim$   $\sim$ ,

ea  $\sim$   $\sim$   $\sim$   $\sim$ .



、p:»—wsp!

asoa, p.

、w, ~w,

wy r gto

-w) sro;

、p, v, h,

、poy es:

6:

e ~ p, p,

~ e - p - p.

df Co:

$\rho \sim \rho, \nu - \nu,$

$\sigma \sim \sigma,$

$\epsilon \sim \epsilon - 1/2,$

$\sigma \sim \sigma \sim \sigma,$

$\rho \sim \rho \sim \rho$

$- \sigma \sim \sigma \sim \sigma.$

6:

$- \rho?$

alg. Geo.

$\sigma \sim \rho^2$ ,

$\cos \alpha, \cos \beta \sim 2^\circ$ ,

entw.  $\beta \in \pi - \mathcal{N}$ ,

$2\pi \sim \sim \circ \wedge \mu$ .

6:

$\circ \mu \sim \sim 4\pi \cdot e$ .

$\mu \in \mathcal{R} \sim \sim \beta \in e!$

$\mathcal{N} \sim \mathcal{N} - 1/\mathcal{E}$ .



uf. lo.

h, n, m, s, z, m.

q. a.

uf. lo.

— ~ ~ ~ ~ ~

son, ve - e - fu

uf. m. r. p. h. z. d.

a.



# DER NACHBARIN HAUS

WP: (—)

21 y 20 2 2 2 2 2,

1 2 ~ v / c p!

nes fro 2, d 2

- b v s 2 f s e n.

1 2 ~ d c u / M,

1 2, c o 2, 1 2 y. 2.

o c l.

f. 1 2 1! m —, c! m

$\rightarrow \sim \sim \sim$ !

$\sim \sim \sim$ .

$\sim \sim \sim$ :

$\sim \sim \sim$ !

$\sim \sim \sim$ :

$\sim \sim \sim, \sim \sim \sim$ !

WWT:

6600000, 1000000  
1000000, 1000000  
1000000, 1000000  
- 1000000 - 1000000  
1000000, 1000000

WWT:

1000000, 1000000  
1000000, 1000000

www:

Dob! Džb!

wp: (y/65)

— y zro! —!

www:

el p, e, /s' 20

22' 22' 22' 22'.

WP:

$\sim \text{re} \rightarrow \text{U/VX}$

$-\text{U} \sim \text{ZXX} \sim$

$\text{ff} \sim \text{fch} \sim \text{f} \text{f} \text{f} \text{f} \text{f}$

$12 \pm \text{Le} \text{e};$

$-\text{e} \text{f} \sim \text{no}, \text{f} \sim \text{b},$

$\text{c} \text{r} \text{o} \text{ - } \text{D} \text{ - } \text{D} \sim \text{no} \text{b}.$

$\sim \text{f} \text{b}, \text{f} \text{e} \text{r} \text{o} \sim;$

$12 \text{A} \text{c} \text{f}, \text{e} \text{f} \text{f} \text{D} \text{c} \text{o} \text{ -}$

www:

ant, vrb, vrb?

-vrb, vrb!

-vrb.

www:

Dz! vrb vrb?

wp: (e n. 20)

i ~ her n ~ 2!

elf loo Hs.

elf loo:

v - l, le 2 p, n,

20 ~ h y 2 n.

H n n ~ w n p.

— D h w p g o h!

WP:

$\rightarrow v^0, \cos^2 \alpha / \sin^2 \alpha?$

df. Co. ( $\rightarrow \sigma / \Lambda$ )

$\rightarrow m \text{ b } f, v \cdot e, p, i;$

$\text{b } \sigma \text{ e } \alpha \text{ } \sim \text{ } \text{b } \sigma).$

$f, l, i, p, m,$

$- \text{Dm } \text{E} \text{ } \sim \text{ }.$



wp: (A)

en,  $\sqrt{e}$ ,  $z \rightarrow z^2$ !

$\sqrt{z} \sim \sqrt{L} \sim L^{\frac{1}{2}}$ .

wp:

$z \sim \sqrt{z} \sim L^{\frac{1}{2}}$ ;

$Dz! \sim z \cdot z / 2$ ;

$z - \beta e^z / z$ .

uf. lo.

D, - / z - i

62 ~ co, ~ w - jrl!

oL, v, e, w erl.

wp:

coW, er! w o m

uf. lo.

1 - / , 1 - / l s r r ! m

1 2 l, b b v b e / 10:

12.11-6670.

WP:

• 12.11-6670, 10!

12.11-6670, 10!

WP:

12.11-6670, 10!

als lo:

— 2√, 2√ p!

www:

1 2 2 2 n' / n,

\* 2 2 2 2 n.

als lo:

2 2 2, 2 2 2.

WP:

g/v o no zo!

df lo:

h<sub>2</sub> C<sub>2</sub> H<sub>2</sub>

h<sub>2</sub> h<sub>2</sub> h<sub>2</sub>

~ ^ c y f z

f d v z u.

WP:

$\omega \sim \omega' \sim \nu \nu' \sim \nu \nu'$

Wf Co:

$h, \nu, \omega - \nu$ :

$\omega \sim \omega' \sim \nu \nu' \sim \nu \nu'$

$\nu \nu' \sim \nu \nu'$

WP:

$\omega \sim \omega' \sim \nu \nu' \sim \nu \nu'$

$\omega \sim \omega' \sim \nu \nu' \sim \nu \nu'$

1. 1/2 1/2 1/2,  
- 1/2 1/2, 1/2 1/2!

1/2 1/2.

1/2, - 1/2 1/2 1/2;

1/2, 1/2 1/2 1/2 1/2 / 1/2.

1/2, 1/2 1/2 1/2;

1/2, 1/2 1/2 1/2 1/2.

www:

Die, 2, 2g — p<sup>2</sup>!  
p<sub>1,1</sub> — l ~ 2D ~ 2e ~ 2u.

df lo:

^ c ~ c, 2 ~ 2, p / k:  
^ e ~ h ~ 2e.

www:

D ~, e ~ 2 / 2 ~.



uf lo:

9/ ~ 2, ~ 2.

9: ~ 26 2000,

~ 200 200/2.

ww:

e. 200 / 10.

uf lo:

10 - 200 / 10.

wp:

ф/в ъ!

ль lo:

гс ~ о гмч,

- а с о в о с в,

с з л ф; ~ г м о в

- в е, е, с в и с ъ ~

»с«, л, »о, в с в о о,

— з г м, з с — ј о!

Д, и њ л л ъ

нбв → гдз!»

WP: (св)

гдз!» рдм.

дз:

» —, сдз!» бсз жд.»

WP:

ед!» с!» р!» ж!»

2/3 Leo:

\ let  $\rho_2$  of  $\rho_1$ ,

$C_1 \rightarrow 2d \sim m \cup$ .

»1« $\rho_1$ , »1/2« $\rho_1$ , »1/3« $\rho_1$

↳  $\rho_1$ , -  $\rho_1$  ↳  $\rho_1$ ,

- ↳  $\rho_1$  ↳  $\rho_1$ ,

- ↳  $\rho_1$  ↳  $\rho_1$  ↳  $\rho_1$ .

2/4:

2 \ -  $\rho_1$ , -  $\rho_1$  ↳  $\rho_1$ ,

\  $\rho_1$  ↳  $\rho_1$  -  $\rho_1$ !

2/3 Leo.

1/2, 2/3 2/3 2/3 2/3

1/2: 2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

2/3 2/3 2/3 2/3

WP:

$\frac{1}{\rho} \frac{\partial}{\partial t} \left( \rho \frac{\partial \psi}{\partial t} \right) = \Delta \psi$

Uf. 60:

$\frac{1}{\rho} \frac{\partial}{\partial t} \left( \rho \frac{\partial \psi}{\partial t} \right) = \Delta \psi$

$\sim \frac{1}{\rho} \frac{\partial}{\partial t} \left( \rho \frac{\partial \psi}{\partial t} \right) = \Delta \psi$

$\sim \frac{1}{\rho} \frac{\partial}{\partial t} \left( \rho \frac{\partial \psi}{\partial t} \right) = \Delta \psi$

$\sim \frac{1}{\rho} \frac{\partial}{\partial t} \left( \rho \frac{\partial \psi}{\partial t} \right) = \Delta \psi$

$\sim \frac{1}{\rho} \frac{\partial}{\partial t} \left( \rho \frac{\partial \psi}{\partial t} \right) = \Delta \psi$

WP:

zr! dno rcm!

Desse, ent

Honges rcm!

Uf lo:

to! el. \ n t.

cm rcm rcm,

Uf rcm rcm,

to rcm rcm rcm.

WP:

Dz! o d r u t a,

be, l. N s q d ~ h!

- d r ~ z y h ~ h o.

\ d ~ e y f o e n

- h e c u - h e c u

- e l l o l y g.

dy lo:

u, u, - d - n i - g u,

c, N y h T



So o ~ 202.

12 ~ 1, 2^2 ~ 2

Do, 62 ~ ~ ~!

wp:

1 - 1 ~ 2 ~ 1 2 2!

uf lo. (l)

~ 1, 1 ~ 1!

1 ~ 1 ~ 1 ~ 1 ~ 1.

1 2.

0 1 - 2 3 4 5 6

www:

com - 2 3 4 5 6

df co: (l)

5 2, 3, 4, 5, 6

1

1 2, 3, 4, 5, 6

WWT:

NC!

WP:

— d v d p c!

12 m ~ f w 2,

c, o - a m p p h - m.

1 v S L' e y k e p o,

1, ~ D L P C h e h o.

2/3 Leo:

h, n h, p j n ve

l, m, n, o, p, q, r, s, t, u, v, w, x, y, z

2 2 n ~ h p, q, r, s, t, u, v, w, x, y, z

~ - , / ~ h j n.

1 h n.

2/3:

1 h e h!





# STRASSE

cf. vlg. lo.

cf.

cf. ? → l. en. ? → l. en. ?

vlg. lo.

st. ! l. en. ? → l. en. ?

→ vlg. f. vlg. → vlg.

→ vlg. f. vlg. → vlg. f. vlg. → vlg.

e ~ c ~ o ~ o ~ o

f ~ h ~ i ~ f ~ h ~ c ~ o ~ !

6:

— √!

2/3 6:

2' 7 c o s t u w.



6:

~ od. c. h. w.

uf. lo.

1. m. ~ v. f. w. o. r.

e. n. o. r. r. n. e. p. t. z. h.

z. l. e. s. s. ~ z. i. n. g. e. r. ~

6:

o. n. j. r. c. h. i. v. o. v. h. v. o.!

व्यं. लो.

ॐ नमो भगवते वासुदेवाय

यत्किञ्चिद्, तद्देवोऽपि

ॐ

ॐ नमो भगवते वासुदेवाय

व्यं. लो.

ॐ नमो भगवते वासुदेवाय

ॐ नमो भगवते वासुदेवाय

ॐ नमो भगवते वासुदेवाय

21/21, d-co) er uot,

22/22, co) R<sub>2</sub> ~ r<sub>l</sub> - 22/22,

el... / 220 rll p<sub>u</sub>?

22/22, rll 4?

— 1/1 R<sub>10</sub> r<sub>l</sub> r<sub>u</sub>,

21/21, r<sub>l</sub> r<sub>u</sub> - 22/22,

22/22, r<sub>l</sub> r<sub>u</sub> - 22/22!

4:

22/22 - 22/22 - r<sub>l</sub>, ~ o r<sub>l</sub>.

uf. lo.

h, c r o l ~ b h d b.

e r r h', z e r n,

e r r h l u r n

- e o r t r z n?

lf:

- f r z y n.

als Leo:

4-2-2!

er' S m L<sub>3</sub>-K,

S p s o l n k m

'e D - S z p n?

6:

o e! - ! m c, affe,

le b, le p

D n d, m l e,

e p, d z e b o n g l,

Der 26. 11. 2014,

- 9 27, 1 1 1/2,

10, 10, 10 1/2,

10 1/2 - 10 1/2 1/2?

10 1/2 1/2:

10 1/2 1/2!

10:

2 1/2 2 1/2 1/2 1/2

1 1/2 1/2, - 2 1/2 2 1/2 1/2:

અનુભવ --- ગુણ,  
વિષય.

--- ગુણ, ગુણો સ્વરૂપ,

અથવા ગુણ, ગુણો સ્વરૂપ.

# GARTEN

wurde  
wurde los - a gwe.

wurde:

1. b, c, e, p, x → z, l,

2) b, p, y, z.

~ v, a: - f, l,

~ w, l, y, z;

1. c, o, y, e, l, h, i, n, z



~ ~ p/h/n.

4:

~ w s e, ~ c / u h l

o ~ c o r d.

~ b r x.

w w t:

~ ~ e t / ! o ~ / r b ~ ~ o ?

b ~ ~ ; ~ ~ !

o o , / g ~ o g h ~ o !



wp:

~ p h r a c ~

— r r l p, d, f h;

o ~ v, l o f z,

— ) o n f e n j h j z h;

e o ~ r c y h.

uf lo:

~ h o, e s c ~.



6:

1. 10! 2, 10 2 → 10! 2,  
• 10 2 → 10 2.

www:

0?

6:

D, e, 1, 1, 1, 1, 1, 1  
10-10 2 10 2!  
10 2, 10 2

Handwritten scribbles

WWT:

ent / ~ v ~ wort,

1<sup>c</sup> / m ~ / l ~ 2.

U:

1<sup>c</sup> / c. f. ~ ?

www:

h, i of. — m,

- d - b - o - o.

12 ~ m; 20 ~ h, k, f

- ~ h - h - p - g;

- ~ m - i - e - g

- ~ a!

1 e b 4 - o) ~ f - m;

1 ~ 5 C / h - o - i - m:

~ h - a - ~ m - m,

~ 2 - ~ 2 - ~ h - i - g.





www:

1 f 1 - 5, - 2 f. N - P.

- a n D r o S t o L e f u n.

1 2 2 u r e u n,

- s e c b e r o n,

- b e r t ) o n n e, n D - n D.

e n t b o n / e u n,

e n e o r b b / h u n,

- y f o r y e n,

2 v D - o b, - o e z

s z z n e, z z z z o

ca. 12, 13, 14, 15.

4:

exp. 12, 13, 14, 15.

www:

exp. 12, 13, 14, 15.

exp. 12, 13, 14, 15.

exp. 12, 13, 14, 15.

exp. 12, 13, 14, 15.

exp. 12, 13, 14, 15.









alg. Co.

e h v z f. e!

d, p m e r o w e.

n' s.

6:

e m p, r, n, e,

s o i z ~ w n e!





D, d, 2, 2, 2, 2

co, 2, 2, 2, 2, 2

- 2, 2, 2, 2, 2, 2

2, 2, 2, 2, 2, 2

2, 2, 2, 2, 2, 2

2, 2, 2, 2, 2, 2, 2

2, 2, 2, 2, 2, 2, 2

2, 2, 2, 2, 2, 2, 2

cf:

$\rho \mu h!$

wmt:

$b \sim r!$

$b \rho d \rightarrow \text{guter} - \text{Hilf, } b \text{ h } b, \sim \rho^2 h.$

cf:

$c o^{\circ} e^{\circ} \sim f o^{\circ}$

www:

www, - ° - - f.

cf:

cf?

www:

www, - - -

www - - -

cf:

conrad eg?

www: (2step)

\ N P m N P /.

cf:

eg 2.00 2.00 2.00!

www: (L/P)

N P m / m N P m / m

e f u o b e, 2 2 d e.

\ N P!

U:

h, 2 n r e! o q o u e d

e r z n o f) o. \ N P!

f o e, c o e d? \ N P!

\ b o r u e r e.

www:

~~15-09!~~

6:

— 22 !! 09 0,

09 22 0 0

coeff:

22 22 — c

1 0, 1 0 20!

0! m 1 0<sup>8</sup> 2 0

~ , ~ 0! ~ 0!

wurde  $(\rho, x, \nu) \rightarrow -\theta \sigma$ .

$\sim \rho \sim \nu \sim \mu, \text{ etc.}$

wp:  $(\sim \nu \sigma)$

$\sim \nu \sigma$

wp:  $\sim \nu \sigma$

$\sim \nu \sigma$

WP:

1.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$

2.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$

3.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$

4.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$

5.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$

6.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$

7.  $\sqrt{1}, \sqrt{2}, \sqrt{3}, \dots$



uf lo:

• ~ n e / g l n .

u<sup>2</sup> o w s !

w p :

\ z / r p n .

uf lo:

- b r D . e \ l \ d .

# EIN GARTENHÄUSCHEN

wurde (2, 1) 2/1, 1;  
2, 1, 1, 1, 1, 1 - 2/1, 1, 1.

wurde:

wurde!

6: (wurde)

D, 2, 1, — wurde!

H, 1, 1!

$\sim \sqrt{b}$ .

*www:* ( $\sim b^c - \sim \text{no } \mu \text{ve}$ )

$b \sim ! \text{Sep } \mu, \rho!$

$\text{df } b \sim \rho \sim$

*lf:* ( $\mu \text{ve}$ )

$c \text{ es?}$

2/3 Leo:

2/3 c!

6:

~ r!

2/3 Leo:

1/2 c / 1/2 b.

wp: (nd)

h, - j, 2, 2.

6:

er, 1, 1, 1?

wp:

1, 2, 3, 4, 5!

U:

2012 12?

NC!

WP:

e!

WWT:

5 6 7 8 9!

U - 1/2 1/3 1/4 1/5

www:

eg  $\mu \approx 1! \cos \sim \sim \sim$

$1 \cdot \cos, \cos \sim \sim \sim$

$\gamma \rightarrow \rho, \sim \sim \sim$

$- \sigma / \sim \sim \sim$

$\sim \sim \sim \rho \sim \sim \sim$

$\sim \sim \sim \cos \sim \sim \sim$

1.

# WALD UND HÖHLE

4.

sin 2b, e w v, w v so,

er, u. e v / v

e n p l s j o e i.

w v, z n n, j n d,

ll, o / b, j p o. /

n f r e w v e t,

n b v, z n d 4

a z ~ b o s l e j z i



eg. b, s, von

— v — d r r l e r

R g u y, z ll — c o m m.

— c' g n R c e ll — m n,

, s o l l g y e s u b t

— s u g e E y e o f l

— n l e g z. r e e n t,

e l t e r / b u z, f d

p e r v b, — r m l l

p r d c e h u).

— s t r v i n v e

coll<sup>re</sup> 2x, zu v

Stellen, e<sup>2</sup> l<sup>2</sup> l<sup>2</sup> y

~ d<sup>2</sup> f<sup>2</sup> s

-ren<sup>2</sup> M<sub>3</sub> f<sup>2</sup> b.

~ e<sup>2</sup> 2q<sup>2</sup> l<sup>2</sup> m<sup>2</sup> o',

q<sup>2</sup> e<sup>2</sup> 1<sup>2</sup> 2<sup>2</sup> 3<sup>2</sup> 4<sup>2</sup> c<sup>2</sup>,

1<sup>2</sup> ~ 2<sup>2</sup> m<sup>2</sup> s<sup>2</sup> - ~ 2<sup>2</sup> W,

v ~ f<sup>2</sup>; ~ 1/2

m<sup>2</sup> n, c, 2<sup>2</sup>, 2<sup>2</sup> - D,

v ~ v b<sup>2</sup> s<sup>2</sup> - j<sup>2</sup>,

2 2 c b, e n o d.

、 2 2 4 ~ o o l s

D L z n v e p l ~

- 2, Sure, p o,

- p o p l, ~ D ure.

2 2 c b, e n o d.

2 2 c b, e n o d.

2 2 c b, e n o d.

2 2 c b, e n o d.

i. c. n, e r o ~ r. L W  
e n E / c o ~ i!

6:

1 — | , e — | r n / L,  
s p r n n / C n.

1/2 L.

~ , ~ ! , s p r n ~ ,  
e e r d v / r n d o n.

~ e p ~ , p ~ , W j - L ~ ,

•  $\cos \alpha / \sin \alpha$

$\sim \sin \alpha \cos \alpha$

$\cos \alpha \sin \alpha - \cos \alpha \sin \alpha$

$\sin^2 \alpha \cos \alpha$

6:

$e = \frac{1}{2} \sin \alpha$

$\rightarrow \sin \alpha, e, \sin \alpha$

uly lo.

o / d e, m r o n

e n → v b?

S n v o m n

v, p d s y n n d;

- c n l, - c d e j

S n r e e p t.

c o e e r z e n, l e n f

p o ~ z z j o p?

c o z b e e r z o - l e n f

o / n n n n?

~ zur,  $\delta_j$   $\mu$ !  
er gl'e 2 R. u.

6:

geb, col ~ s w o l l

v r o e i e j l ?

h, <sup>so</sup> e, ~ ~ ~,

e c b l l i n, ~ v v / j z ~.

2/3 Leo.

~ 80% 2/3.

~ 2-45 ~ 1/2 2/3

- 10-20 2/3 2/3,

1-2 2/3 2/3,

10 2/3 2/3,

2 2/3 2/3,

2 2/3 2/3,

2 2/3 2/3,

2 2/3 2/3,

- 2 2/3 2/3



2  $\wedge$  pe.

$\rightarrow$  erl / on, am / 20.

6:

Er & el!

2/3 lo:

e  $\rightarrow$  / on;

$\rightarrow$  e / on, p / Er / on.

erle / on  $\sim$  on  $\sim$  on,

on  $\sim$  2 / on  $\sim$  on.

-  $\nu_j - \nu_{j+2}$   $\rho e \nu \nu$ ;

$\rho \nu \nu \nu$ ;

$\nu \nu \nu \nu$ .

$\nu \nu \nu \nu$

-  $\nu \nu \nu \nu$ ;

$\nu \nu \nu \nu$ .

$\nu \nu \nu \nu$ ;

-  $\nu \nu \nu \nu$ .

$\nu \nu \nu \nu$ ;

$\nu \nu \nu \nu$ .

$\nu \nu \nu \nu$ ;

одежда — не ст;

есть в то время;

никуда.

Повторяю, не ст,

одежда — не ст,

есть в то время;

никуда.

Повторяю, не ст;

одежда — не ст,

есть в то время.

»С — не ст!« — не ст

rr, rrr.

rrr, rrrr,

rrrr,

rrrrr,

-rrr.

rr:

rr!rr!

2/3 Co. (L)

2/1 e, p l

6:

2/1 e, p l

- 2/1 e, p l

2/1 e, p l

1/2 e, p l

alg. Geo.

$\cos^2 - \sin^2 = \cos 2\alpha$ ,  $\sin 2\alpha = 2 \sin \alpha \cos \alpha$ ,  
 $-\sin 2\alpha = -2 \sin \alpha \cos \alpha$ .

Q:

$\sin \alpha \cos \alpha = \frac{1}{2} \sin 2\alpha$ ,  $\cos \alpha \sin \alpha = \frac{1}{2} \sin 2\alpha$ ,

$\sin^2 \alpha = \frac{1 - \cos 2\alpha}{2}$ ,  $\cos^2 \alpha = \frac{1 + \cos 2\alpha}{2}$

$\sin^2 \alpha - \cos^2 \alpha = -\cos 2\alpha$ ,

$\cos^2 \alpha - \sin^2 \alpha = \cos 2\alpha$ .

2/3 Leo:

2c, 2bc! 12 7 8 11  
2 j 2, e l o c e i.

4:

2p, 2i!

2/3 Leo:

2! 1 2/3, - 1 20 2.

2, 4 - 2 2 2 2,

2 2 2 2 2 2,

Ob, p, q, r, s.

→ p, i ~ 20 h!

^ d ~ 20 h, r, s,

1 h ~ 20 h.

4:

co, p, q, r, s, t, u, v, w, x, y, z?

o, p, q, r, s, t, u, v, w, x, y, z?

b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z?

u, v, w, x, y, z, a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z?

→ p, q, r, s, t, u, v, w, x, y, z?



o ~ o f y / l e / l e n 4,

u n d e r D 2 n e j?

- o f b, 2 n e z n,

n 2 n s 2 n n d e l e,

- . 1 2 o u m

n n i n d.

- 1, 2 n s b,

4 / n,

e 1, l e n b

- b / n n z!

b, n l e r b, n n!



- u, a) the 2!

e, b) d - p - t.

i, y, z, b, c, s, d

o - l, g.

# GRETCHENS STUBE

Wd: (n gut, ~)

z ~ 2,

z ~ zj'z;

1 be 6 ~

- ~

c ~ 1/2,

• v e h,

12j d

• v r l.

z r n l

• v r l,

z r n b

• v f f l.

z v 2,

z z y z,

1 b e b z

- z r n.

$\mathcal{D}R \sim \mathcal{Z}_1$

$\mathcal{J} \mathcal{L} \mathcal{Z}_0$ ,

$\mathcal{D}R \sim \mathcal{N}_1$

$\mathcal{E}^2 \mathcal{Z}_0$ .

$\mathcal{O} \mathcal{Z} \mathcal{N}$ ,

$\mathcal{O} \mathcal{E} \mathcal{F}$ ,

$\mathcal{O} \mathcal{V}_0 \mathcal{R}$ ,

$\mathcal{O} \mathcal{N} \mathcal{F}$ ,

- o e

hlo,

o xh,

- D! o no!

z y 2,

z y z,

1 b e b m

- m.

$\sim \ln \mathcal{N}$

$\int \mathcal{D}R_2,$

$\text{Det}_1 \mathcal{L}_0$

$-2\sqrt{\tau},$

$-\sqrt{\sigma} \tau,$

$-\sigma_1 - \sigma,$

$\sim \sigma \sqrt{\sigma}$

$m!$



# MARTHENS GARTEN

wms. G.

wms:

Pr, 2P!

G:

com!



www:

e. /  $\beta, \alpha, \omega, \kappa, \eta$

6:

$\omega, \alpha$

www:

$\beta, \kappa, \omega, \sigma, \rho, \eta$

$\eta, \beta, \rho, \omega, \alpha, \omega, \eta$

6:

1 ~ 6.

www:

∂ → w.

120, 1 ✓ 2 6 9 ~ 1 m.

26/9 ~ 27?

6:

2 12, a er on:

1 2 ~ 27?

ad hoc

- not just

~ h/o.

www:

— 2/5/2

6:

β P1, 2, 3, 4, 5, 6!

α β γ δ ε ζ

- α β γ δ ε ζ

»12 ~!«?

c. 1/2,

-) 1/2

1/2: »12 ~!«?

1/2,

1/2,

1/2 - 1/2 /

1/2, 1/2, 1/2?

1/2) 1/2 / 1/2?

1/2, 1/2 / 1/2 ~ 1/2?

- 1/2 1/2

22/25?

25/22 20,

- 22/20

22/20 - 22/20,

- 22/20 22/20

22/20 22/20?

22/20 22/20 - 20/20;

- 22/20 22/20,

22/20, 22/20,

22/20! 22/20! 22/20!

22/20 22/20

el. β: eo;

~ r: ze - D,

~ r: se z: eo.

~ r: se:

e: eo ~ r: ze - 2;

~ r: se de: eo D,

→ ~ r: se de: eo.



6:

-  $\sigma_0 \sim \sqrt{}$

-  $2\mu \int^2 \rho \rho N,$

$\sigma_0 \sim \rho;$

$c_{1/2} \sim \rho?$

www:

$c_{20} \sim 2\sqrt{2} \cdot \rho \cdot \rho,$

$\mu \rho \rho \rho;$

$c_{1/2} \sim \rho.$

cf:

$\rho \sim \sqrt{c}$

w/w:

$-4v \sim \gamma \sigma$

$e_1 \rho_2 \sim \rho / \sigma$

cf:

$\sigma \sim ?$

www:

~ 2y, ~ 4 e 1 e 2

• v 2 h n i o s b;

→ v 2 v 2 h

— 1 ~ p 10 2 y p h

o° 2 y h e 1 p.

6:

h a, b h ~ !!

www:

o m d u d v e y.

1 v o d e n z y z;

n a, v o r, e p j z,

z 1 ~ 2 z y ~ z r z,

- z / r l ~ z r e y!

z 1 y v, c, r p l y!

6:

- z o p z y z.

www:

— 1/20022222!

~v, ~e/v2,

σ, μ — fde

— 2d √W;

~σ, e, ~1 ~ ~ ~ ~ √;

— fR ~ g ~ fR;

e, /v — o. h.

v<sup>d</sup> — c. z e r n,

— l, — 2m c v,

— o m √ p / v e r i j.

6:

$g \sim g_0 \sim g!$

www:

$e \sim \rho - \sigma,$

$e, c \sim v_j / \tau h,$

$z_1 \sim v_{11} \sqrt{\rho / v}.$

$D, c, e_i; \sim \sqrt{1} \sim u,$

$-e \rho v_{10} z_1 z_2;$

$e, z \rho, z_0 - D - \sigma.$

U:

90 ~ 100!

www:

120 ~ 1.

U:

10 ~ 12

~ 100 ~ 100 ~ 100 ~ 100

- 10 ~ 10 - 10 ~ 10 ~ 10?

www:

Do it again!

1. Do it again, it's not like;

Do it again!

- It's not like,

1. Do it again!

6:

Do it, it's not like.

Do it again!

Do it again, it's not like.



2.  $\text{Kz} \text{ f. } \dots$

WWT:

$\text{co}_2, \text{H}_2\text{O}$

$\text{H}_2\text{O}$

U:

$\text{H}_2\text{O}, \text{CO}_2, \text{H}_2\text{O}$

www:

o, p, u, v, w,  
x, y, z, A, B, C, D, E, F, G,  
H, I, J, K, L, M,  
N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

1.

1/2 1/3 1/4 1/5.

uly Leo:

\ 2ol! \ cr?

6:

2 ε p u ?

uly Leo:

120 dr c u u,

2 r e u e n d o ;

2 l, - o m c u u.

120<sup>2</sup> d o n o ,



als lo.

es so gar zu,

~ ~ ~ ~ ~

li:

es gar zu - li!

als lo.

- , lo ~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

66, 61, 2, 6 ~ 2,

Sc. n. L. V.

~ 2 ~ 2 ~ 2 ~ 2

6:

con. 6 ~ 2

6: 6:

2, 2 ~ 2 ~ 2

# AM BRUNNEN

W-Brunnen.

Br:

295 W-Brunnen?

W:

med. in W-Brunnen.

Dr:

$\rho, \rho_{\text{new}} \text{ of } v_2$ :

1)  $\rho_{\text{new}}$

$e \cdot e \sim \rho$

Dr:

$\alpha$ ?

Dr:

-  $\rho$ !

$\rho_{\text{new}}, \rho_{\text{old}} - \rho$



Wh:

D!

Sh:

— 6 r e. l. m.

o r 2 b ~ 2 m. p. u!

e a ~ p. u;

s e n d - u p. y. b. u;

u b 4. 1. 5. 0;

~ u b 1 r m 2 G p h - c. i;

u e l ) c o s r z z ~,

ad - no, ) / j z u;

pu / R pu.

a - po - pu;

ei e Deu Deu!

Wh:

e n e n!

De:

u s / b j u!

c I o R pu a,



Dr:

1.  $\sim \sim \sim ! \sim \sim \sim$

2.  $\sim \sim \sim \sim \sim \sim$

3.  $\sim \sim$

Dr:

1.  $\sim \sim \sim$

Dr:

1.  $\sim \sim \sim, \sim \sim \sim \sim \sim$

2.  $\sim \sim \sim \sim \sim \sim \sim$

-2 in für u!

1.

W: (D<sub>2</sub> me)

and 10 - the year,

and - now the year!

and 18 in the

1st in the year!

and 20 - 20 in the year,

and 21 in the year,

- and 22 - 22 in the year,

-v ~ b' b' b'!

2 ~ 2, 2 ~ 2, 2 ~ 2,

2! a ~ 2! D, a ~ 2!

# ZWINGER

z' z' z' ~ Abw' ~ me ~ o, ~ z' ~  
~ z' a.

W g/ff ~ z' ~ z'.

D ~ z',

g z' z' z',

e z' z' z' z' z'!

e z / R z y,

2 4 e z y

w b s / e o o o L e.

f s u w b e s,

- o g y z b e s

2 s z o ' - e ~ 1.

a b 1,

o o 1

' z y v R p ~ ?



coz no zy x u,   
 co - p, co u,   
 c o - e, e - !

c 2, p v

o o, o o, o o

v p u x!

1 u, D! u - ,

1 c, 1 c, 1 c,

e z y p v.

1.  $z \sim z \sim \text{b}$

4.  $z \sim \text{b}, \text{D}$

5.  $z \sim \text{b} \sim \text{b}$

6.  $z \sim \text{b}, \text{D}$

7.  $z \sim z \sim \text{b}$

8.  $z \sim \text{b}, \text{D}$

9.  $z \sim z \sim \text{b}$

10.  $z \sim \text{b}, \text{D}$

2d! r r p s p - L e!

D ~ r,

g z p r t,

e d n e r r n t!

# NACHT

fo - Wov

Lein o-el, Wolei

c1 - o v r p,

c 2 h ) w v,

- , p v ~ l

\ v h , f o ,

2 r r o e r g l,

~ u r r g l,

о, 1, 2, 2, 6, 5,

2, 1, 2, 2, 2, 2,

- 2, 2, 2, 2, 2, 2,

- 2, 2, 2, 2, 2,

- 2, 2, 2, 2, 2!

и: 2, 2, 2, 2,

1, 2, 2, 2, 2,

1, 2, 2, 2, 2, 2, 2!

2, 2, 2, 2, 2, 2, 2, 2,

1, 2, 2, 2, 2, 2,

6, 1, 2, 2, 2, 2, 2, 2.

er 0 2 1 2 3 4  
- 2 1 2 3 4 5  
- 2 2 2 3 4 5  
2 3 4 5 6 7  
0 1 2 3 4 5  
1 2 3 4 5 6  
- 2 3 4 5 6  
2 3 4 5 6 7

com 2? coz 2x?

1/1, -2 Mj.

0, 2) 6, 1, 2, 2, 2

0/10015 fu!

6. 2/3 60.

6:

05<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup>

6<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup>

-6<sup>2</sup>-6<sup>2</sup> 6<sup>2</sup> 6<sup>2</sup>,

- 60 2 2 2 2!

- 8 2 2 2 2 2.

2 2 2.

- 2 2 2 2 2,

2 2 2 2 2,

2 2 2 2 2;

2 2 2 2 2,

~ 2 2 2, ~ 2 2.

- 2 2 2 2 2

2 2 2 2 2.



in  $\sqrt{5} \approx 2.236$ ,  
e  $\approx 2.718$ ,  $\ln 2 \approx 0.693$ .

6:

$\sqrt{c} \cdot \gamma^2 \approx 2.12$ ,  
 $\approx 1.414 \sqrt{2} \approx 2.0$ !

1/2  $\ln 2$ :

$\ln 2 \approx 0.693$ ,  
 $\ln 2 \approx 0.693$ .

$\ln 2 \approx 0.693$ .

$\ln 2 \approx 0.693$ .

<sup>2</sup> *Handwritten signature*

*U:*

*1 ~ β<sup>e</sup>, 1 ~ √,*

*2 ~ 4. 0. 1. 2. 3. 4.*

*U. Co.*

*1. 0. 1. 2. 3. 4.*

*0. 1. 2. 3. 4.*

6:

— √! v 4 - 0,

c<sub>1</sub> → p ~ j ^ n.

2/3 60:

— d ~ m / e o,

v o d ~ n o / p o.

f, e i ~ n ~ g ~ z,

d ~ c ~ o ~ r ~ d ~ z ~ m:

1 b ~ 1 ~ 2 ~ e f l,

2 b p o / u ~.

o/p.

o/p.

o/p.

o/p.

o/p.

o, o, o!

o/p.

o/p.

o/p.

$\mathcal{N} \rightarrow \mathbb{R}!$

$\cdot \rightarrow \mathbb{R},$

$e \rightarrow \mathbb{R}'$

$\wedge \rightarrow \mathbb{R}, \mathbb{R} \rightarrow \mathbb{R}!$

$\circ \wedge \rightarrow \mathbb{R},$

$\wedge \rightarrow \mathbb{R} \rightarrow \mathbb{R}$

$\rightarrow \mathbb{R}$

$\circ \mathbb{R}^2 \rightarrow \mathbb{R} \rightarrow \mathbb{R}.$

Lehr: (H)

a-bey? v r w!

re-ahn!

1-2-3-4!

1-2-3-4 ~ on!

1-2-3-4

1-2-3-4 ~ 1/2

Lehr:

$\sim \circ - \sim \sim \text{ge}$ !

als Leo: (j/ll)

$\sim e, / p \sim ! \text{ll}$ !

$\sim \sim \sim \sim, \sigma_1 \rightarrow \text{ll}$ .

$202 \sim \sim \text{ll}$ !

$\sim \sim \sim \sim !, \text{ll}$ .

Lehr:

W~!

Uf Leo:

er er /?

Lehr:

D~!



ulj lo:

poj!

Len:

120' L L!

co' e' e' j', x v n.

ulj lo: (j l)

poj!

Lehr: (L)

— 0!

Uf Leo:

~ · R p!

~ u l! r v o z / g e r

e z g r ~ v e r f.

~ c o p h e r C s,

o z z u n g r p y l e r.

wp:  $(n \ln)$

$2n! 2n!$

WZ:  $(n \ln)$

$x \sim n!$

wp:  $(0 \sim n)$

$n \neq -1, n \neq -2.$

*Ln:*

$e^x dx \sim \ln!$

*wp:* (20/100)

1, 2, 3, 4, 5, 6, 7, 8, 9?

*W:* (20/100)

$e^x dx?$

Len:

e ~ 2 ~ 0 ~

Wh:

~ 0 ~ 0 ~ 1 ~ 0 ~ 1 ~

Len:

1 ~ 0 ~ 1 ~ 0 ~ 1 ~ 0 ~ 1 ~

- 0 ~ 1 ~ 0 ~ 1 ~

0 ~ 1 ~ 0 ~ 1 ~ 0 ~ 1 ~ 0 ~ 1 ~

~ 0 ~ 1 ~ 0 ~ 1 ~ 0 ~ 1 ~

• Կար:

~ ԿԼ, Բ! Գ Ե Զ Է,

Ե Զ Է Ը Թ Խ,

Չ Ժ Ի Լ Խ.

Կ Ը Թ Խ Կ:

Գ Ե Զ Է Ը Թ Խ,

— Ը Թ Խ!

Wh:

~ le! ~! co° v e?

Len:

o i ~ ~ ~ o? go!

fish ~ fr

- a, ~ ~ ~, - ° ~ ~

g b d ~ ~ ~ ~

l ~ ~ ~ ~ ~

- c e l ~ ~ eye?

- ~ ~ ~ ~ ~

с д, г е' р м,

б з р / д / л,

- у р ~ з у ~ л

а с н л - м;

к, у, в, л, б, м, н, р, е.

д, б, в, н - л) / 2, 0,

е, н, б, д, л, н, в, о

- . 2 / з у р /

л, з, о, а, р, б,

л, у, а, б, о, н, о, л.





Лис-А. Д. Я.,  
-, с е н Д 2 1 Я,  
с н о н е!

202:

Д. — о 2 1 / н е!  
— 1 2 3 4 5 6 7 8 9 10

Лис:

Д. — о 2 1 / н е!  
— 1 2 3 4 5 6 7 8 9 10

es 11, 2, 2, 2  
m, 2, 2, 2, 2.

W:

2, 2, 2, 2, 2!

L:

1, 2, 2, 2, 2!

es 1, 2, 2, 2, 2,

2, 2, 2, 2, 2.

1, 2, 2, 2, 2

121 ~ 00-11-15.

gd.



$\mu \cdot \sigma$ ,

$2 \cdot \sqrt{\sigma^2}$ ,

$2 \cdot 2 \cdot \sqrt{\sigma^2}$ !

W!

$\sigma \cdot \sigma \cdot \sigma$ !

$2 \cdot \sigma \cdot \sigma$

$\sigma \cdot \sigma$ !

$\sigma \cdot \sigma \cdot \sigma \cdot \sigma$ ,

$\sigma \cdot \sigma \cdot \sigma \cdot \sigma \cdot \sigma \cdot \sigma$ !

$\sigma \cdot \sigma \cdot \sigma \cdot \sigma$ !

$\sigma - \sigma \cdot \sigma$

$\sqrt{2} / \sqrt{2} = 1$   
 $- \sqrt{2} / \sqrt{2} = -1$   
 $2 \sqrt{2} \sqrt{2} = 4$ ?

Wh:

$\infty! \infty!$

$\infty! \sqrt{\infty} \infty,$

$1 \sqrt{2} - 2 \sqrt{2}$

$\infty!$

2:

Dies irae, dies illa

Solvat saeculum in favilla.

*[Handwritten flourish]*

~~1026:~~

n. l. b. d!

, C. o. l. d!

, h. u. u!

- e. z. y,



o p u s  
j l e n e n  
E g g l e n,  
u s!

W i:

u , x o !  
v ; o r i , u v  
~ n o f ,  
p r u z y  
r u b b .

2:

Judex ergo cum sedebit,  
Quidquid latet adparebit,  
Nil inultum remanebit.

22:

v' — ~!

1222

1222!

e p d

e p d! ~ ~!

1026:

un dicitur - ge

un dicitur.

un dicitur.

un dicitur!

2:

Quid sum miser tunc dicturus?

Quem patronum rogaturus?

Cum vix justus sit securus.

1026:

1/2000

1/2000

1/2000

1/2000

1/2000

2:

Quid sum miser tunc dicturus?

W:

Der! — z. l. p.!

6 l. z. — n.

# WALPURGISNACHT

2. April. me. Syn - re.

4. v. l. l. o.

v. l. l. o.

w. d. g. / D. r. u. g. ?

1. o. d. v. ~ e. r. e. d. l. e. n.

s. d. e. n. z. r. d. c. / S. y.

6:

— r, v, 2, 3, 2, 2, 2, 2, 2, 2,

r, v, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

2, 2, 2, 2, 2, 2, 2, 2,

als Co.

ka, 1 gr 1 es!

v. - a<sup>m</sup> p. u,

1. a<sup>m</sup> z - l b s r u.

a l g t, p u n z u

o u u e l g u z z

- u g l, e u u t e r j e

u u u u u l e u u!

u, e, i ~ u u u!

e u o, u, e u u f l u.

z e! u l e! e l, e p, j l e u?





o d u o , P o l u n e .

*N!*

1 m c , 1 ^ e - 2 S 2 ,

- - P m D / u .

- u e n t ! - u i 2 z j u t .

- c ~ N / j , o r c o o

- v o p - p s / u .

6, 2/3 6, 1/2: (R Dopp)

2, 1/2 - 1/2

2, 1/2, 1/2

6, 1/2 - 1/2

er 1/2, 1/2

2, 1/2, 1/2!

0, 1/2 1/2

0, 6, 1/2

- 1, 1/2, 1/2

- 1, 1/2, 1/2

0, 6, 1/2, 0, 6, 1/2!

$P, f, P \sim \omega$

$\rightarrow 10 - 12 \tau.$

$2 \rightarrow 1 y_i? 2 \rightarrow 1 h_i?$

$2 \rightarrow 1 2 e h o n r,$

$g u h r h o n r?$

$c o r 2 h, c o r h!$

$- e h, o, o$

$\rightarrow f, 2 \rightarrow 1 E.$

»z!z!«L-~s,

y-M-~s,

z<sub>6</sub>-Dpu?

z<sub>2</sub>z<sub>2</sub>Dofz?

~L,~L!

-,a-fu,0,pu,

ser)olo-oe,

fu ceo ve,

z/zu, z/lu;

oLerion

fu oLolon

D<sup>2</sup> ca. - 120

schw, zueo,

pezo - p, z e!

-, l u m l u

z p z p z p

j o v e, /

u o v, u p z

e r i c r i?

eo, eo z / j e r,

lo - l r, i p h

20, - , 1000,  
1) 20, 1) 20.

2000.

2000000!

2000000

2000000,

2000000.

6:

$\alpha \cdot \beta \cdot \gamma, \delta$

$\sim \alpha \cdot \beta \cdot \gamma!$

$- \beta \cdot \gamma, \delta$

$\alpha \cdot \beta \cdot \gamma, \delta$

$\alpha \cdot \beta \sim \alpha \cdot \beta \cdot \gamma, \delta$

$\alpha \cdot \beta \cdot \gamma - \delta$

$\alpha \cdot \beta \cdot \gamma \sim \alpha \cdot \beta \cdot \gamma$

$\alpha \cdot \beta \cdot \gamma \sim \alpha \cdot \beta \cdot \gamma$

$\alpha \cdot \beta \cdot \gamma - \alpha \cdot \beta \cdot \gamma$

$(\alpha \cdot \beta \cdot \gamma) \cdot \delta$



- x i p ~

w / 6 ) s ~ r.

e s p h u i ~ s

a g f h z e i ~ o.

e j s ! z ~ r p z z

y p 1 ) , l e r o.

u s l o.

w / 1 / r l b

x v ~ n ~ C o ?

~ r , e e ' p z ?

1. 2. 3. 4. 5.

6:

1. 2. 3. 4. 5. 6.

7. 8. 9. 10. 11. 12.

13. 14.

15. 16. 17. 18. 19.

20. 21. 22. 23. 24. 25.

26. 27. 28.

29. 30. 31. 32.

52/20, ...

2, - 20, ...

20/20.

20-20!

20/20!

20/20-20!

20/20

20/20

- 20/20

20-20!

20/20?

z' l'us, z' n' s'?

h, ~ z' p' u' n' r

f' d' ~ d' r' p' r!

z' l' (R 2)

z' l' j' l' u' p' r;

z' l' : z' u, i o i' h.

e' d' a' l' )' l' o' z' l,

z' u' ~ o' f' u' s.

- u' - s' f' - f' r,

- l' y' i' z' l' - g' u' d' - l' u'.

g<sub>v</sub>:

1. ku ~ ku,  
6 ✓ s ~ ku.

2:

— ~ ku, ku ~ ku!

ku ~ ! — ku!

~ ku — ku,  
e l d ~ ku.

gr:

ch on n d e ?

gr:

si reg!

es 2 / i - no no 2,

1A - C n!

gr:

— l r / 2 w!

co ✓ e — ju!

g:

g, g, g,

g, g, g!

h, h:

h, h, h,

h, h, h?

h, h, h,

h, h, h.

Best, zu 2:

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

zu 2.11:

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$

$1 \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow \mathbb{Z} \rightarrow 0$



*g*: (—w)

w/2, w/2, 1/2!

*g*: (—w)

1/2 w/2, 1/2.

1/2 g, —w<sup>2</sup> 1/2 g — w;

w/2 g

*ve* 2v:

—g/2 — w, —g/2 g,

—w/2 w/2) w.

noogreju  
folchun.

ju: (S~S)

2. 2. 2. 2.

ju: (S~S)

and es o' long?

g<sub>u</sub>: (J<sub>u</sub>)

~d v P u! ~d v P u!

1 g<sub>u</sub> g<sub>u</sub> g<sub>u</sub> g<sub>u</sub> g<sub>u</sub>,

- ~d v P u! ~d v P u!

1 c v m u v o v h.

v<sub>2</sub>:

- h' u, h' g

u. h, - h' u

a 2 2) / u u u

• d ~ u u u u.

2.02. (5)

$\sim \mathcal{D}, - \sim \mathcal{F};$

$\sigma^2, \mathcal{H} \sim \mathcal{V}!$

$\sim \mathcal{Z} \sim \mathcal{V}$

$- \sim \mathcal{X} \mathcal{D} / \mathcal{G}.$

2.1.2.

$\sim \mathcal{W} \sim \mathcal{Z} \mathcal{U},$

$\sim \mathcal{S} \mathcal{I} \mathcal{O} \mathcal{U}$

$\sim \mathcal{N} \mathcal{O} \mathcal{F} \mathcal{I} \mathcal{T} \mathcal{E} \mathcal{R} \mathcal{L}$

$\sim \mathcal{M} \mathcal{L}, \mathcal{Z} \mathcal{I} \mathcal{L}.$

ve 2v:

-cr<sub>2</sub> ~ v<sub>g</sub>,

-f<sub>2</sub> ~ v<sub>2</sub>

-e<sub>1,2</sub> e c - v

2 ~ v<sub>2</sub> v<sub>2</sub> ~ v<sub>2</sub>

b.σ) r.

v<sub>g</sub> b.σ:

e v<sub>g</sub> - f<sub>2</sub> b, e y - v<sub>2</sub>!

e f<sub>2</sub> - v<sub>2</sub>, e f<sub>2</sub> - v<sub>2</sub>!

e v<sub>g</sub>, f<sub>2</sub> - f<sub>2</sub> - v<sub>2</sub>!

~ crosshatched!

→ lb ~ v! o d ~ r ~ p.

c b e?

lf: (z' lms)

z!

rlf lo:

co! e / j 2 v o ~?

e r <sup>c</sup> 1 2 v l l v o.

Gj! Lm L r e ~ v. Gj! o C e, Gj!

2, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91, 105, 120, 136, 153, 171, 190, 210, 231, 252, 274, 300, 327, 356, 386, 417, 450, 485, 522, 561, 602, 645, 690, 737, 786, 837, 890, 945, 1002, 1061, 1122, 1185, 1250, 1317, 1386, 1457, 1530, 1605, 1682, 1761, 1842, 1925, 2010, 2097, 2186, 2277, 2370, 2465, 2562, 2661, 2762, 2865, 2970, 3077, 3186, 3297, 3410, 3525, 3642, 3761, 3882, 4005, 4130, 4257, 4386, 4517, 4650, 4785, 4922, 5061, 5202, 5345, 5490, 5637, 5786, 5937, 6090, 6245, 6402, 6561, 6722, 6885, 7050, 7217, 7386, 7557, 7730, 7905, 8082, 8261, 8442, 8625, 8810, 8997, 9186, 9377, 9570, 9765, 9962, 10161, 10362, 10565, 10770, 10977, 11186, 11397, 11610, 11825, 12042, 12261, 12482, 12705, 12930, 13157, 13386, 13617, 13850, 14085, 14322, 14561, 14802, 15045, 15290, 15537, 15786, 16037, 16290, 16545, 16802, 17061, 17322, 17585, 17850, 18117, 18386, 18657, 18930, 19205, 19482, 19761, 20042, 20325, 20610, 20897, 21186, 21477, 21770, 22065, 22362, 22661, 22962, 23265, 23570, 23877, 24186, 24497, 24810, 25125, 25442, 25761, 26082, 26405, 26730, 27057, 27386, 27717, 28050, 28385, 28722, 29061, 29402, 29745, 30090, 30437, 30786, 31137, 31490, 31845, 32202, 32561, 32922, 33285, 33650, 34017, 34386, 34757, 35130, 35505, 35882, 36261, 36642, 37025, 37410, 37797, 38186, 38577, 38970, 39365, 39762, 40161, 40562, 40965, 41370, 41777, 42186, 42597, 43010, 43425, 43842, 44261, 44682, 45105, 45530, 45957, 46386, 46817, 47250, 47685, 48122, 48561, 49002, 49445, 49890, 50337, 50786, 51237, 51690, 52145, 52602, 53061, 53522, 53985, 54450, 54917, 55386, 55857, 56330, 56805, 57282, 57761, 58242, 58725, 59210, 59697, 60186, 60677, 61170, 61665, 62162, 62661, 63162, 63665, 64170, 64677, 65186, 65697, 66210, 66725, 67242, 67761, 68282, 68805, 69330, 69857, 70386, 70917, 71450, 71985, 72522, 73061, 73602, 74145, 74690, 75237, 75786, 76337, 76890, 77445, 78002, 78561, 79122, 79685, 80250, 80817, 81386, 81957, 82530, 83105, 83682, 84261, 84842, 85425, 86010, 86597, 87186, 87777, 88370, 88965, 89562, 90161, 90762, 91365, 91970, 92577, 93186, 93797, 94410, 95025, 95642, 96261, 96882, 97505, 98130, 98757, 99386, 100017, 100650, 101285, 101922, 102561, 103202, 103845, 104490, 105137, 105786, 106437, 107090, 107745, 108402, 109061, 109722, 110385, 111050, 111717, 112386, 113057, 113730, 114405, 115082, 115761, 116442, 117125, 117810, 118497, 119186, 119877, 120570, 121265, 121962, 122661, 123362, 124065, 124770, 125477, 126186, 126897, 127610, 128325, 129042, 129761, 130482, 131205, 131930, 132657, 133386, 134117, 134850, 135585, 136322, 137061, 137802, 138545, 139290, 140037, 140786, 141537, 142290, 143045, 143802, 144561, 145322, 146085, 146850, 147617, 148386, 149157, 149930, 150705, 151482, 152261, 153042, 153825, 154610, 155397, 156186, 156977, 157770, 158565, 159362, 160161, 160962, 161765, 162570, 163377, 164186, 164997, 165810, 166625, 167442, 168261, 169082, 169905, 170730, 171557, 172386, 173217, 174050, 174885, 175722, 176561, 177402, 178245, 179090, 179937, 180786, 181637, 182490, 183345, 184202, 185061, 185922, 186785, 187650, 188517, 189386, 190257, 191130, 192005, 192882, 193761, 194642, 195525, 196410, 197297, 198186, 199077, 199970, 200865, 201762, 202661, 203562, 204465, 205370, 206277, 207186, 208097, 209010, 209925, 210842, 211761, 212682, 213605, 214530, 215457, 216386, 217317, 218250, 219185, 220122, 221061, 222002, 222945, 223890, 224837, 225786, 226737, 227690, 228645, 229602, 230561, 231522, 232485, 233450, 234417, 235386, 236357, 237330, 238305, 239282, 240261, 241242, 242225, 243210, 244197, 245186, 246177, 247170, 248165, 249162, 250161, 251162, 252165, 253170, 254177, 255186, 256197, 257210, 258225, 259242, 260261, 261282, 262305, 263330, 264357, 265386, 266417, 267450, 268485, 269522, 270561, 271602, 272645, 273690, 274737, 275786, 276837, 277890, 278945, 279992, 281045, 282097, 283150, 284205, 285262, 286321, 287382, 288445, 289510, 290577, 291646, 292717, 293790, 294865, 295942, 297021, 298102, 299185, 300270, 301357, 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er 20) 200 4. 50.

2/3 60:

2 200 4 200 10.

0 4, 2 0 0 1 0 0;

1 1 2 2 2 2 2.

1 2 2 2 2,

2 2 2 0 0 2 2 2 2 2 2.

2 0 1 2 2 2, 2 2 2 2,

2 2, 1 2 2 2.

2 2 2 2 2 2;

10. 10, 20. 20.

12. 20. 20. 20.

13. 20. 20. 20.

14. 20. 20. 20.

15. 20. 20. 20.

16. 20. 20. 20.

17. 20. 20. 20.

18. 20. 20. 20.

19. 20. 20. 20.

20. 20. 20. 20.

21. 20. 20. 20.

6:

- 4 p m, 2 J x ~ p m,  
o p m - u l l e y n ?

15. 6.:

p u, 10 p l, n n t / 2,  
d b r z m n o r o z.

~ n n e / 2 1 p l e,

d · b e l o x m / 2.

b e, z r e s ? b n d z y n z;

z n n b e p l



20:

aus  $\sim h!$

22  $\int \log p_i$

er  $\int \log v \sim h$

g  $\log, \log \sim h$

26:

$\int \log^2 \log p_i$

$\int \log \log p_i$

$\int \log \log v$

$\int \log \log v$

Gen:

randomer

- in  $\mathcal{H}$ ,  $\cos \theta$ ;

$\partial f \sim \lambda \rightarrow \alpha \sim \nu$

-  $\mu \in \mathcal{H} \rightarrow \nu$ .

2:

aus  $\mathcal{H} \rightarrow \mathcal{H}$

Submanifold!

-  $\cos \theta \in \mathcal{H}$ ,

$e \cdot \mathcal{H} \rightarrow \mathcal{H}$ .

als Lo: (s ~ o ~ d ~ g)

f ~ n b ~ e ~ l ~ o ~ p ~ l,

e ~ j ~ f ~ e ~ b ~ e ~ n ~ g ~ e,

- c ~ u ~ l ~ t ~ u ~ r,

- i ~ d ~ e ~ s ~ e.

Lesz:

r ~ e ~ n ~ n ~ e ~!

b ~ i ~ n ~ n ~ e ~!

s ~ a ~ n ~ n ~ e ~!

- g ~ e ~ n ~ e ~!





ulj lo:

h r n ! b g r v g l , f .

h r , h r ! h r , h r !

h r b ) s ~ s h !

h ~ s h g r s ~

ll:

e , v p h / b r o !

z o , v e e h r o !

als Co.

~ 2/3 fe. f. D. m;

es 2/3 / 2/3; - es' p. m.

6:

c. e. e.

als Co.

M. b. ps!

M. e.



6:

es of j, 1, 2, 3, 4, 5

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

12345678910

12345678910

12345678910

6: (12345678910)

12345678910

12345678910

Handwritten text in cursive script, possibly a signature or name, consisting of several lines of characters.

Handwritten text in red ink, possibly a signature or name, consisting of a few characters.

Handwritten text in cursive script, possibly a signature or name, consisting of several lines of characters.

Handwritten text in cursive script, possibly a signature or name, consisting of several lines of characters.

Handwritten text in cursive script, possibly a signature or name, consisting of several lines of characters.

Handwritten text in cursive script, possibly a signature or name, consisting of several lines of characters.

als Co. (2.5)

11 ~ dh

101 ~ f' u

1 ~ p' i

20, c, b, v, d.

1.5:

1 u 2 ~ 15 10

2 u 2<sup>2</sup> 10!

2.1 ~ 10 10 10,

c, e 20 1/2.

Luhab:

Mo Lu! co f1 r r?

22 r r / 100:

~ 20 f1 r r r r 100?

~ 4 f1 r r, 5 r r r r r!

1 f r: (Lyc)

co-er's r r r?

6: (type)

1. 1. 1. 1. 1.

co 1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.



Luftschiff:

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

21. 22. 23. 24. 25. 26. 27. 28. 29. 30.

31. 32. 33. 34. 35. 36. 37. 38. 39. 40.

41. 42. 43. 44. 45. 46. 47. 48. 49. 50.

51. 52. 53. 54. 55. 56. 57. 58. 59. 60.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

Luftschiff:

100 → 200 100 ft:

~ 2000 m. l. 1/;

~ 2000 ~ 1/Byju.

- 4/4.

2, 1, 1, 1, 1, 1, 1, 1;

1 - 1, 1, 1, 1, 1, 1, 1, 1

- 2, 2, 2, 2, 2, 2, 2, 2

1, 1, 1, 1, 1, 1, 1, 1.

2/3 Leo:

1) 2/3 — 1/3 of 2/3,

e.g., 1/2, 1/3, 1/4,

— 1/2, 1/3, 1/4, 1/5,

• 1/2, 1/3, 1/4, 1/5, 1/6.

1/2, 1/3, 1/4, 1/5, 1/6.

1/2, 1/3, 1/4, 1/5, 1/6,

1/2, 1/3, 1/4, 1/5, 1/6.

6:

D! 2 R p f

~ \to 2 \to 1 \to 2 \to 1

2/3 6:

e \cdot c \cdot \sqrt{6} \cdot e \cdot \sqrt{2} \cdot 1 \cdot \sqrt{5}

\sqrt{11} \cdot \sqrt{13} \cdot \sqrt{17}

\sqrt{19} \cdot \sqrt{23} \cdot \sqrt{29}

6:

er o, m

uf lo:

co?

6:

uf, be e ✓

~ 60, 2000 e - lu p?

6 2/2 2000 e ✓,

6 2/2 2000 e ✓, m.

120 km, ever

eb<sup>2</sup> 2 2 2 2

2/3 2/3

oe → f! a<sup>d</sup> ~ 200 c.

i ~ f<sup>u</sup>; 20, ~ 2:

R/um; / 2:

S f ~ 6 f<sup>u</sup> 2 2 2 2

- 1' 2 2 f ~ 2;

S' 2 2 2 2 2 2.

6:

6, 2, 2, 2,

1, 10, 20, 30.

e, 6, 12, 18,

e, 6, 12, 18.

6:

e, 6, 12, 18!

e, 6, 12, 18.





→ M 9.6.7.2.  
~ r d e r h z,  
x p - f o r h  
- z r v / r h,  
- o r c r ~ h h.  
c o r r e r ?

o r d o :

r h r e r.  
~ ~ s o f, e f f s o r.  
T y m i s ' 0,

~ ent, - für

- ent pro D.

f, r, m, c, je

Per, ~ s, je.

als lo:

c, s<sup>2</sup> k, w, l, e;

e, l, e, p, r, 2.

# WALPURGISNACHTSTRAUM

er

wo-wo

2.1.2.2

ny

unb:

2221~0,

20000.

100-000,

einfach!

2.1:

einfach,

20000;

nicht,

einfach.

$\mu_i$ :

$$e_1 \wedge e_2 \sim c_1 \wedge v_i$$

$$-f_1 \wedge e_2 \sim f_1 \wedge v_i$$

$$e_1 \wedge e_2 \sim e_1 \wedge v_i$$

$$e_1 \wedge e_2 \sim v_i$$

$\zeta_i$ :

$$e_1 \wedge (e_2 - v_i) \sim e_1 \wedge e_2$$

$$-e_1 \wedge v_i \sim e_1 \wedge v_i$$

$$e_1 \wedge v_i \sim e_1 \wedge v_i$$

$$) D_1 \wedge v_i$$

№:

1) 100 ~ 20

2) 100 ~ 100;

3) 100 ~ 100,

4) 100 ~ 100.

№:

1) 100 ~ 100,

2) 100 ~ 100!

3) 100 ~ 100,

4) 100 ~ 100.

W:

$z \cdot \bar{z} = |z|^2$

$z \cdot \bar{z} = |z|^2$

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$z \cdot \bar{z} = |z|^2$

$z \cdot \bar{z} = |z|^2$

$z \cdot \bar{z} = |z|^2$

$z \cdot \bar{z} = |z|^2$

o . . . :

σ, ε ~ ν' ερ!

- . . . h. s.

2√ ~ zuzuz

p o f z ~ o

z b, ) / u e t.

g u b o - ~ u u

- b u h <sup>2</sup> p l l h!

g ~ u h u - /,

o u - ~ p l l h.



~ Ah:

~ 1-22 h

12-14-15

16-18-19-20

21-22-23.

~ Ah ~ Ah:

• e/20-21-22

• ~ 23

~ 24-25-26

27-28-29

~ e ~ 3:

~ ~ ~ ~ ~ zj!

o ~ ~ ~ ~ ~ l:

— o ~ ~ ~ ~ ~ e,

— i ~ ~ ~ ~ ~ l.

~ e ~ ~ ~ ~ ~ :

o ~ ~ ~ ~ ~ e ~ ~ ~

l ~ ~ ~ ~ ~ o;

o ~ ~ ~ ~ ~ j

j ~ ~ ~ ~ ~ o.

Ab:

D! 2 pr W 2:

o' / x per!

- f<sup>2</sup> n p d h a

z ju - per.

h d:

'G a - o' -

b d' - h c d h,

e d i n d s r r u

- f - e r o d h.

12:

12/1/10

22/2/10

22/2/10

22/2/10

12:

12/1/10

22/2/10

22/2/10

22/2/10

Sch: (W' - o)

pf, o r o r n:

o r n l z!

- h p u, u l u,

1 2 h y o d z!

Sch: (W' h o)

- 4) / u l s,

6 - / g u,

- 1 2 u o r d

2 2 2 u g u.

2m:

o 10  $\sqrt{z}$  1 ea,

2 m m z h z m,

oh, I' m A,

D m j m.

2.3:

o, o b z  $\sqrt{z}$  z

m g z z!

n r o b m z,

b m z z z.

201:

1 2 3 4 5

6 7 8 9 10

11 12 13 14 15

16 17 18

19-20 21-22:

23-24 25-26

27-28 29-30

31-32 33-34

35-36 37-38





chre:

h, l, l, u, z, v,

io ~ so,

o u u s<sup>2</sup> u u u z

u u u u u:

hri:

e u u h c ~ ~ so 2?

1 2 u u u u.

»  $\frac{1}{2} \sqrt{!} - 2 \rho \sim$

1 u u u u u.»

упр:

а)  $\sin \theta, \cos \theta!$

б)  $\sin \theta, \cos \theta!$

в)  $\sin \theta, \cos \theta!$

г)  $\sin \theta, \cos \theta!$

реш:

а)  $\sin \theta, \cos \theta,$

б)  $\sin \theta, \cos \theta;$

в)  $\sin \theta, \cos \theta;$

г)  $\sin \theta, \cos \theta.$

enm:

1. 5 2 1 1 2 2,

1 2 2 2 2 2.

2 2 2 2 2 2;

2 2 2 2 2 2?

enb:

1 2 2 2 2 2

2 2 2 2 2 2.

2 2 2 2 2 2;

— 2 2 2 2 2 2.

web:

ecor · v R/E

- 20 P 10 10;

1 82 2 1 2

1 6 5 2 ~ 10.

web:

2 6 2 2 1 1

- 2 2 2 2 2;

2 1 ~ 2 2 1 1

5 2 2 6 2 0.

отом:

622 ~ 622 5' g

- 22 ) ~ 22 22

5 22 22 22 22 ;

ev, 22 22.

отом:

22 22 - 22 22,

22 22!

22 22 - 22 22,

22 22 22!

1. p. 10:

oob [Sanssouci], — 26 e 2

S. f. p. l. i;

s ~ l. o. r. a / u,

e. r. i. s ~ n. l.

1. p. 10:

o. d. 2. r. u. h. o. f. f.,

n. u. r. i. d. e. n!

F. z. z. h. f.,

r. h. s. n. t. o. e. r.

nh:

$\int^2$  of  $n$   $n$  1,

crossed  $n$ ;

$\partial^2$   $n$   $n$   $n$   $n$

1, 2  $n$  2  $n$ .

supl:

$\partial^2$   $n$   $n$   $n$   $n$   $n$

$n$   $n$  = -  $n$   $n$   $n$ ,

$n$   $n$   $n$   $n$   $n$

all  $n$   $n$   $n$ ?

120:

$G - G! - \sqrt{2}!$

—  $2^2, 2^2, 2^2$

$2^2 \sim 2, 2^2 \sim 2,$

$62 \sim 2^2$

Q:

$M - 2^2$

$0 \sim 2^2,$

$- \sim 2^2 \sim 2^2$

$- \sim 2^2, 2^2,$



$\sqrt{2}$ :

$n, \sqrt{2} n,$

$n \cdot 2^b \rightarrow \mathbb{R},$

$\lfloor n \sqrt{2} \rfloor,$

$\sqrt{2} n!$

$\sqrt{2} : (n \cdot 2^b)$

comp-able

den) /  $\sqrt{2}$ .

$\mathbb{R} \cdot \sqrt{2} - \mathbb{R} \cdot \sqrt{2},$

-diff  $\sqrt{2}$ .





Wu! R p l r n r e! l o r b s m -  
Der b o r n g! - v d e s z z y z v  
H z, u d v m d e r h - o b  
z h o e r n!

Uf lo:

b, l l.

U:

z e! n g s o p! m o e r, e p e r z b! o e  
~ a n e z o z e p l, o \ ) l l n e =



2/3 Leo:

~<sup>2</sup> r j E ~ h y i o c p, e, c ~ r j i  
o s p l. c u r v b e p r / 2 J c e y b / d m  
i - l m - b i g e / b i e m r J e r  
s, - e e p J i

6:

l y e b m p v / - m! v n / m  
2 o, m a z b, ' e v / g u d e r, ' e  
z z y n b - v o, c u r ~ z e p u  
v z e r, ' ) a z e r c e l - a e l e r ) / ?

uly lo:

rod e<sub>g</sub>?

6:

~ b! er es er! ~ 20<sup>5</sup> 6<sub>g</sub> 8 p s huc!

uly lo:

1 n, ve<sup>o</sup> ✓ 2 / 3, 0 ✓ 2 / huc. m

» ~ b! « m C C<sub>o</sub>, ' b no ltr g<sup>h</sup>? 1 er

e<sub>g</sub>?

Uw/oe sp.

Uf lo:

Uf  $D^2$  em? c, e. / ser  
gen / pu oe! ~ ser m're / ju, e.  
— mnd, ) = mnd / v.

Uf:

Uv  $D^2$  6° l o!





uf. 60:

1.  $\ln p, -\cos \ln, 2 \sqrt{2} 1 - \ln p 2$   
 $- \sin^2 \cos \ln - 1 \ln, \ln p$   
 $2^0 - \ln 6 2 2 \ln p, 1 \ln, 1 \ln^2$   
 $\ln, 1 \ln \ln.$

6:

$s - e^s!$

# NACHT, OFFEN FELD

U, Uf Loo, 5 zyp Ben es Loo

U:

co an, e  $\sqrt{2}$  ~ Uf?

Uf Loo:

co /, co b ~ 2 - ghr.

6:

$g_{n-1}, g_n, \dots, g_n, (g_n)$ .

alg. Geo.

— Syll.

6:

$6 f_{n-1} - c_n$ .

uly lo.

u! u!

# KERKER

62  $\sim$   $u_0 z^0 - \sim$   $u_0, \sim$   $\sim$   $om$   
wh.

6:

$Pb \sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$

es lllb, 6 Epsr!

!e p p w ~ l e z.

\ N l e z o. - 6 N u e r!

z z, 1 z

, v p y l l o!

z l u, z n

\ v p o o!

z z o ~ n

z s, l e

~ ~ ~ ~ ~;

es ce, ~ ~ ~ ~ ~;

es P, es P!

6: (276)

6 ~ 1, e ~ 1/2 y,

1 ~ ~ ~ ~ ~ 2 ~ ~ ~ ~ ~, e f z, e y.

~ ~ ~



www: ( ) s<sup>2</sup> m u r e )

os! os! b ~ w. sh Le!

lf: ( ✓ )

g! g! 1 ~ r, p, l u.

www: ( ) ~ ~ x p e )

be ~ r p, — b r ~ 1.

6:

Կ', ըն  $e^2$  չէ չու!

Ե, ն, Ե զք՞:

www: (5 ~ նու)

ա յ Ե ն Գ Վ

Կ Վ թ:

Կ ը Վ թ չ ն լ.

ն թ - Ե Վ թ:

Թ ն թ / չ թ:

Ե թ Ե.

u, d, l - h, - h!

- o, g, h!

z, a, d, - e, a, u, l, h.

s, a, l, o, n, i, c;

h, o, d, - n, y, i, l, u, h, t.

l, o, v, l, - p, l, a!

z, v, l, c, o, v, e, r, p, l.

o, v, l, m, o, l, d,

o, v, l, e, n, n, l, p, l.

6:

$c_1 \sim \text{hugr!}$

www:

$1v \sim 2y \sim e \sim v.$

$ov \rightarrow b e v e \sim h m.$

$12y - 92y \sim b;$

$b \sim v, 2v, \dots$

$- \dots, 1 \rightarrow 1, y \sim b.$

$- \dots c_1 \in \mathcal{L}.$

$66 \sim b \sim v! \dots \dots \sim \dots!$

~ Prudent,  
as before?

U: (coll) r)

~ versterker,  
1. künftige.

www: (coll) r)

~ 0.5 m, 2. m pl!

pl! 1. m pl,

pl! 2. m

81, 2. w!

↳,

2b - Sur N,

N ~ p!

6: (N)

W! W!

www: (www)

ec<sup>o</sup> Leo p!

o p s. 1. m l e n a.

$C: \dot{v}_1 \dot{v}_2 \sim \dot{v}_2 \dot{v}_1$

$\dot{v}_1 \dot{v}_2! \dot{v}_2 \dot{v}_1 \sim \dot{v}_2 \dot{v}_1$

$\sim \dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1$

$\sim \dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1!$

$\dot{v}_1 \dot{v}_2! \dot{v}_2 \dot{v}_1 \dot{v}_2$

$\dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1$

$\dot{v}_1 \dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1 \dot{v}_2$

$\dot{v}_1 \dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1 \dot{v}_2 \dot{v}_1$

6:

1 10!

www:

eg 10! - 1 - 2 - 3!

~ 10^e, 10!, 10! 2: 10!

2, 10^0 100! 100!

eg 10! 10!, 10/10.

1 10 10!

2, 10 10

5, 10 10 2 10



- 2 ~ W

c, - w e c

6: (yve)

~! ~!

WWT:

- c

c, d - m, c e c b.

msc.

6:

—!

cey/—b

~ r L ~ ~ ~ ~ ~

www:

dey n / ~ ~ ~ ?

~ b ~ ~ ~ ~ ~

— x ~ ~ ~ ?

~ v ~ e ~ ~ ~ ~ ?

condenser, e ~ ~

~ 2/2 2/2 2/2 2/2  
- 2/2 2/2, 2/2 - 2/2 2/2.

2/2!

2/2 2/2, 2/2!

2/2 2/2.

2/2 2/2 2/2 2/2,

2/2.

2/2 2/2

2/2?

2/2 2/2 2/2?

2/2 2/2) 2/2.

6:

~! L R v! M, 6 2!

1 2 y d 2 4 6 8 2

~! L R v! 1 4 d ~! 9!

www: (j R p o e)

- 6 e<sub>0</sub> e<sub>1</sub> - 6 e<sub>0</sub> D p o e

6:

1 4 6 ~! 2!

www:

erdb, lo~o,

nderp, engo.

and, eed - v/z b?

- cber, r lo, c e d b?

6:

~!~!z c, d n.

www:

www, www,

www, www.

www - www?

www, www, www.

www, www.

www, www, www.

www, www,

www.

www, www.

www,

1.  $\mathcal{P}_2$ !

4:

o e n n n o,

g l d p r

222:

~ , g r b s n !

1 - e , h d f u ,

l , r b e o m

2 2 2 ;

~ 2 ~ 6 Gm,

2 ~ 6 → 2 ~ 6,

2 ~ 6 ✓,

→ 2 ✓!

- e ~ v ~ 1, 2 4.

2 ~ 6 ✓ v ~ 1 ~ 2

2 ~ 6 ✓ 2 ~ 6,

e ~ 6, ~ 2 ~ 6!

2 ~ 6 ✓ 2 ~ 6;

2 ~ 6, 2 ~ 6, 2 ~ 6 ✓;

2 ~ 6, 2 ~ 6 ✓;



-  $\partial \phi_{e_0} - \omega b - \eta_1 - \nu$ .

Q:

$\partial \phi_{e_1, e_1} - \nu_1 - \nu$ !

WWT:

$e_2$ !

Q:

no  $\nu$ .

www:

• ekeo,

sw`le, — ~!

Sx no dx zu

— c ~ j

gzb ~ !, —, —, —, —!

6:

gn! — — — !, r g l h!

www:

1 erll; l v p . 9 / 2 h.

co 2 ll, l p ? b . s n d v s.

- i - x, u n / v o

- 2 y 2 u o p o !

- i - x, i h e z h

- b c v d s h !

6:

1 u v v e

www:

pe! pe!

ne no ne!

pe ~ or

ne 2s,

x ~ p,

z ~ al 2s,

no, c, long p,

pe ✓.

lo → ✓!

→) m,

-p d 2!

v! v!

6:

u p d!

→ ~ p, - b e l!

w w w:

c w r ~ w u!

e o f r u s r g,

- b o p ~ u z l!

erdr 2 2 5 2 g

- erdr<sup>2</sup> 2 l

6 erdr, 6 erdr, 2 l 1 2 g,

6 g - 2, 6 erdr.

6 g, erdr 2 l

- erdr!

6:

2 l 2 2 l 2, 2 l 2 2,

- erdr, erdr 2 l.

www:

o v! ~, 1 e n p!

lo v! - v e n!

o d 1 e h e o p!

6:

\ n h! p h! p h!

www:

n! h, - 'n! \ f n e 2;

~ e p n d, o!

anwe, eeg, v. W. d.

o r r r r r!

i n p!

r c s e o;

n / v r y.

i r r r r), r r r r r.

\ G, r o

r r r r r.

i r r r r, e g r r r.

o r r r r - r r!

r r r r r r r.



2 H 1 D 1 e r u m  
1 z h, 1 D 2 r y d.  
g r d, d o e k!

6:

1 C 1 n f u m!

1 f l o. (g l e o)

s! e r t e m.

o p p! f e m - G e n!

u b e z e m,



www:

√ 2 10! e 2, 1 2 8 10!

2/3 10: (1/4)

~! ~! 1. 0 0 2 1 2 3.

www:

e 10, 10! 1 2 3!

1 2! 1 2 3 4 5,

1 2 3 4 5 6!

2 3! 4 5 6 e.

2/3 Leo:

6.  $\sqrt{11}$

8. (1-2)

•  $\sqrt{11}$

2/3 Leo: (1/2)

2/3!

2/3.

*f*: (f, m, z, r)

z r! z r!







