

Lesbians

GOETHE

FAUST

ha

h





o no w b l,  
- n i z, r z f e  
S r p f, - v z o p e i

o z n /, l r e p,  
i o n, m, i, l o r,  
f r i e l e p,  
w n, D i, l E n.  
z e s t f u t v,  
r e b e r z e p u,  
- c o j o n d r e l e s,  
c - d d, N i c h f s t.

- p d l - n d x l o n  
D l e p u, n o t z b i,  
- z u n z p f l e n

~ frc l; ~ oml v;  
~ p l b v, L ~ L d ~ L u;  
e f r 2 y, - b' ) v e - c;  
co 1 b f, o 1 o R c;  
- co g e, v j o m.

# VORSPIEL AUF DEM THEATER

entw. undh. f. Co.

entw.:

1.  $\sqrt{2}, 1, \sqrt{2} - 1$ ,

2.  $1 - \sqrt{2}, \sqrt{2}$ ,

3.  $\sqrt{2}, 1, \sqrt{2} - 1$

4.  $\sqrt{2}, 1, \sqrt{2}$

5.  $\sqrt{2}, 1, \sqrt{2} - 1$

6.  $\sqrt{2}, 1, \sqrt{2}$

7.  $\sqrt{2}, 1, \sqrt{2} - 1$

8.  $\sqrt{2}, 1, \sqrt{2}$

9.  $\sqrt{2}, 1, \sqrt{2} - 1$

10.  $\sqrt{2}, 1, \sqrt{2}$

11.  $\sqrt{2}, 1, \sqrt{2} - 1$

0 - unv, 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

$f^2 \sim e^{16} / f^4$ ,

$\sim 62 f^2 \text{ } \delta \text{ } \rho$ .

$\sigma \text{ } \rho \text{ } \delta \text{ } e \text{ } \omega \text{ } \rho \text{ } \delta \text{ } \rho$

$-2 \omega \rho \delta \rho \delta \rho$

$e \text{ } \rho \text{ } \omega \text{ } \rho \text{ } \omega \text{ } \rho \text{ } \omega \text{ } \rho$ ,

c)  $f \text{ } \rho \text{ } \delta \text{ } \rho \text{ } \delta \text{ } \rho$ ,

$-2 \rho \delta \rho \delta \rho$

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$ ;

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$ ,

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$ ;

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$ .

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$

$\rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho \text{ } \rho$ !

du:

— P v / 11 L W v,  
U n e r 1 2 b d l.

se v e c r e p s,

e E — 1 1 f e p.

u, b e p / g e n e r s,

c — 2 d h — L e d;

c 1 - L o f 1 0 2 p o n

2 2 n o e p h - l e n.

D! c o 2 d h 4 1 e s p h,

c o), k e p h e p e d,

w e h f - h f p r u,

p h o e n e r o p d.

U, c - h e h e p e n,

p h - 2 e c h p d.



comp;  $l \sim \text{mer } \text{pen}$   
e R e d' - D e pen.

*f Co:*

$c_1 \rightarrow 1/5 \sim 2/2 \sim \text{pen}^{\text{f}}$ .

$pf, e_1 \sim 1/2 \sim \text{pen}^{\text{f}}$ ,

$c \sim \text{pen}^{\text{f}} \sim 2/2 \sim \text{pen}^{\text{f}}$ ?

$\sim -6 \sim -0 \sim 2$ .

$i, m \sim 1/5 \sim 2/2 \sim \text{pen}$

;  $e \sim 1, m \sim 1/2 \sim \text{pen}$ .

$c_1 \sim 1/2 \sim 2/2 \sim \text{pen}$ ,

$\sim 1/2 \sim 2/2 \sim \text{pen}$ ;

$\sim 1/2 \sim 2/2 \sim \text{pen}$ ;

$2 \sim 1/2 \sim 2/2 \sim \text{pen}$ .

$e_1 \sim 1 \sim 1/2 \sim 2/2 \sim \text{pen}$ ,

$b \sim 1/2 \sim 2/2 \sim \text{pen}$ ,

ull, ye, of, erf,  
d, w, c. l. - n, z.

ork:

o n b, p, q!  
w n d, z, w - n b, z.  
f, o ~ n y, f, u,  
- e, v, p, o, d, n,  
e, o, r, i, l, v, s, p, u,  
r - e ~ b, p, u.  
w, o, d, r - p, w, p, u,  
~ t, e, d, ) r, e, b, c, o, e.  
c, u, b, o, l, w, f, u, d, r, k, o, b, u,  
- t, e, n, p, l, e, e<sup>2</sup>, z.  
w, r - p, - w - s, z, p, u!  
f - u, - w, s, z, u;

$\mathcal{N}_1 \sim \mathcal{N}_2, \dots, \mathcal{N}_n \sim \mathcal{N}_1$   
 $\text{cost}^2, \text{cost} \sim \text{cost}^2$   
 $e \text{ cost}^2 \rightarrow \text{cost}^2$

ok:

$\mathcal{N}_1, \mathcal{N}_2 \sim \text{cost}^2$   
 $\text{cost}^2 \text{ cost}^2 \text{ cost}^2$   
 $\text{cost}^2 \text{ cost}^2$   
 $\text{cost}^2, \text{cost}^2 \rightarrow \text{cost}^2$

ok:

$\sim \text{cost}^2 \text{ cost}^2$   
 $\sim \text{cost}^2 \text{ cost}^2$   
 $\text{cost}^2 \text{ cost}^2$   
 $\text{cost}^2, \text{cost}^2 \rightarrow \text{cost}^2$   
 $\text{cost}^2 \rightarrow \text{cost}^2, \text{cost}^2$

connected,  
 with  $\mathbb{S}^1$  or  $\mathbb{S}^2$ ,  
 - , co-compact,  
 with  $\mathbb{S}^1$  or  $\mathbb{S}^2$ .  
 with  $\mathbb{S}^1, \mathbb{S}^2, \mathbb{S}^3$  or  $\mathbb{S}^4$ ,  
 -  $\rightarrow$   $\mathbb{S}^1$  or  $\mathbb{S}^2$ ;  
 (or  $\mathbb{S}^3$ ) -  $\mathbb{S}^1, \mathbb{S}^2$   
 -  $\mathbb{S}^1 \rightarrow \mathbb{S}^2$ .  
 co-compact  $\rightarrow$   $\mathbb{S}^1, \mathbb{S}^2$ ;  
 co-compact  $\rightarrow$   $\mathbb{S}^1, \mathbb{S}^2$ ;  
 co-compact  $\rightarrow$   $\mathbb{S}^1, \mathbb{S}^2$ ;  
 $2d^2$  or  $2d^2$  or  $\mathbb{S}^1$ .  
 $\rightarrow \mathbb{S}^1, \mathbb{S}^2, \mathbb{S}^3$  or  $\mathbb{S}^4$ ;  
 $\rightarrow$  co-compact  $\rightarrow$   $\mathbb{S}^1, \mathbb{S}^2$ .  
 co-compact  $\rightarrow$   $\mathbb{S}^1, \mathbb{S}^2$ ;  
 $\mathbb{S}^1, \mathbb{S}^2$  or  $\mathbb{S}^3$





*f. Co.*

— Über, 1, 2, 3, 4, 5

— 1, 2, 3, 4, 5

0 2 ~ 10 2 10

1 2 3 4, 5 6, 7 8

— 1 2 3 4 5;

— 1 2 3 4 5 6

1 2 3, 4 5 6 7 8,

— 1 2 3 4, 5 6 7 8

1 2 3 — 4 5 6 7 8!

1 2 — 3 4 5 6 7 8!

— 1 2 3, 4 5 6 7,

— 1 2 3, 4 5 6 7 8.

1 2 3 4 5 6 7 8,

1 2 3 — 4 5 6 7 8,

— 1 2 3 4 5 6 7 8

→ d'Art - 24

en ad) 'trez d'at

→ r p - j' l'at,

en on le p' p'

→ r en) r' j' r,

en' l'at, l'at l'at

→ l'at, co. R' p' h.

2<sup>o</sup> b' p' w, j' en - j' p'

o m 2<sup>o</sup> p' l'at) r' j' i;

en l'at; 2<sup>o</sup> j' l'at;

→ r' p' en l'at.

h:

→ r' v' D, j' ε,

en, 2<sup>o</sup> b' p' en,

en) → l'at



Stempel,  
entw. d. d. d.,  
in f. d. d. d.,  
entw. d. d. d.,  
in f. d. d. d.

1. d. d. d.  
~ d. d. d. - f. d. d.  
d. d. d. d.,  
d. d. d. d.,  
d. d. d. d., d. d. d.,  
d. d. d. d.!

f. d. d.

d. d. d. d. d. d. d.,  
d. d. d. d. d. d.,  
d. d. d. d. d. d.

Jan 18 1880,  
Chas. J. Fox to my  
Suzanne Fox,  
c/o Dr. Allen  
in Worcester.  
Dear Suzanne,  
24-24 pl,  
D. 16 pl,  
22 or 18 pl,  
e. 18, 18, 18,  
- 18 18/18.  
e. 18/18, 18 pl,  
- 18 18 18 18.

ent:

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

6 v d r e m o z!

z r n z e t d,

n k o n f o p u

c o z l l, f f g u, r e!

z f e r e g t o n.

w r s n e l l c u,

- n v e t, C u b.

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

r - n g u p u g h;

n l v p t e!

c o z z l p; z n n l p,

- n n o z l o,

e z z o` g o

w s f - s i r z e l o,

- a/b/c  
- a/b/c, c, v.

a/b, s i z u

L u t e r, c o v.

a z u v ~ r n

L e t t - l y n.

p e t o, - m e t t,

, f u e l t r g e i;

~ c o, l e n, l e n e n,

~ r - l e n t l.

- f i z u l e n

~ r n ~ o' z l y o,

- c e l l e n z u

S e r, c / z u.



№:

- zu -  $\mu$   $\mu$  zu

er)  $\mu$   $\mu$   $\mu$   $\mu$ ;

-  $\mu$   $\mu$   $\mu$   $\mu$

$\mu$   $\mu$   $\mu$   $\mu$   $\mu$ .

-  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

$\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$ ,

-  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

$\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$ .

№:

-  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

$\mu$   $\mu$   $\mu$   $\mu$ ,  $\mu$   $\mu$   $\mu$   $\mu$ ,

-  $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

$\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$ .

$\mu$   $\mu$   $\mu$   $\mu$   $\mu$   $\mu$

2te ~ 0 erga.

de un, x, m

coll'ocor.

12:

~ un ~ un gr,

ca ~ d'p'ca,

- e e e e e

~ un ~ un.

13:

ca, ~, x, d ~ e b

- h, a ~ u l l e,

- e p o d f u m o,

- b e p d p r p e.

y, i n / e e c t v e,

- c v d' n y r o s d;  
~ a o l d p o j d,  
d e o l e d u c l.  
f o i' - d c o, i j o n,  
1 o 2' ; o j, r p l o n.  
~ m r i d d g a s r n p,  
- : c e n s o r s n.  
~ c v d' n y r o s d;  
d e o l e d u c l.  
~ m r i d d g a s r n p,  
- : c e n s o r s n.  
~ c v d' n y r o s d;  
d e o l e d u c l.  
~ m r i d d g a s r n p,  
- : c e n s o r s n.  
~ c v d' n y r o s d;  
d e o l e d u c l.  
~ m r i d d g a s r n p,  
- : c e n s o r s n.



2. der Endwert, 0 no.

2x:

2y v  $\checkmark$  / 2n?

2d<sub>1</sub>  $\rightarrow$  2n / 2n?

2s' re 2n / 2n?

2f<sub>1</sub> 2o:

2n!  $\rightarrow$  2n, 2n, 2n, 2n, 2n, 2n.

2n<sub>1</sub> 2n<sub>2</sub> 2n<sub>3</sub> 2n<sub>4</sub> 2n<sub>5</sub>

2n  $\rightarrow$  2n, 2n / 2n.

2x:

2d<sub>1</sub>  $\sim$  2f?

alg. Co.

~ 2!

~ 2:

~ ml!

alg. Co.

ber! \end{array} s' co.

1/100 \end{array} h 2 p o.

~ 1/2, 2, 2, 1, 1, 1, 1,

~ 1/2 \end{array} 2 u u b;

5 2 1 \end{array} 1, 2 \end{array} f u

- 5 \end{array} 1 e 2 \end{array} 1/2,

- e \end{array} 1 \end{array} - e \end{array} 1 u

1/2 \end{array} 1, 1/2 \end{array} 1/2.

2:

c.v. D → c.v. ed,

— c.v. uerzierung b.

c.v. d'w, c.v. d'w,

c.v. -N, c.v. l'g.

2/3:

c.v. d'w? ~ d'w!

c.v. uerzierung,

~ c.v. d'w.

2:

— c.v. s'ed,

— c.v. e'ed,

— c.v. w'ed — c.v. f.



24. Leo.

24. 12/1/2.

v. l. r. a. n. / a.

c. j. r. g. p.

v. l. r. k. e. u. l. f.

g. i. l. o. - 2. f.

o. r. m. i. w. t. g.

25.

g. e. l. d. e. s. - l. g. u. s.

1. 2. e. o. r. h. - p. b.

S. e. r. v. e. t. u. s.

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

o. r. g. a. n. i. s. m. i. s. t. e. r. i. a.

v. i. d. e. l. i. c. i. t. a. t. i. o. n. e.

h. u. m. a. n. i. t. a. t. e.

\sqrt{f} - \text{out} - \text{w} \text{ s.t. } \text{gl}.

$\partial r, \text{the } 2 \text{nd}$ ,

$\text{by } \sqrt{\text{w}} \sqrt{\text{gl}}!$

$e^{\text{ce}}, e^{\text{d out}} - \text{d}$ ,

$\text{do } \sqrt{\text{d}} \text{ 2nd } \text{for}$ ,

$-\text{co} = \text{zero } \text{gl}$ ,

$\text{do } \sqrt{\text{ce}} \text{ for}$ !

\sqrt{e}, \sqrt{e} \text{ (same)}.

$\sqrt{e} \text{ (same)}$

$\sqrt{f} \sqrt{e} \sim \sqrt{m}$ ,

$-\text{d} \sqrt{e}, \sqrt{e} \sqrt{d}$ .

$-\text{d} \sqrt{e} \sqrt{e} \text{ (same)}$ ,

$-\text{d} \sqrt{e} \sqrt{e} \sqrt{d}$ .







# *DER TRAGÖDIE ERSTER TEIL*



# NACHT

z z f e d, m z f p  
G, p s o r o n G.

G:

z m, D! b o l,  
L f - r e p,  
- e D h v  
e o f e l, z z b u r.  
e s p i m, i n e L!  
- v - m o o p i  
z o v o b, z o e n  
- p z n, p z h  
z s, z e - l - m  
z p z n o z m

- 2, 100  
e - v g e z y l u  
p u, p s - i d u,  
e, v b, f u - l h i;  
v l u n o u l j l,  
l l v l u n z u l l u m  
d. v D. L e t o,  
v e v / ~, c o l o j o,  
v e v / ~, ~ l c o m,  
i, r g j o <sup>2</sup> - j u m.  
D i, c e y j v e,  
j i' - n / d;  
- v l u n z e - u d u!  
e, v, v - v m,  
v v, v l o l l - v e  
/ v l p w <sup>5</sup> v e;



so zehren wir,  
Liedchen,  
zerpöbeln!

o! grimmig!  
Morgens,  
bestenfalls  
Kopfgeld!  
Auf der Hand,  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
eie die die!

- 10 2, 10 2  
10 2 10 2  
10 2 10 2  
10 2 10 2  
10 2 10 2  
10 2 10 2  
10 2 10 2  
10 2 10 2  
10 2 10 2

10 2 10 2 10 2  
- 10 2 10 2  
10 2 10 2 10 2  
10 2 10 2  
10 2 10 2  
- 10 2 10 2  
10 2 10 2 10 2

off - 26 ja 26.  
rod, el'no 6 2  
12 in y 2 a 26:  
1 26, 1 26, 2 26;  
2 26, 2 26 2 26!

1 26 26 26 - 26 26 26 26 26.

21: 26 26 26 26 26  
5 26 26 26 26 26!  
1 26 26 26 26 26  
2 26 26 26 26 26  
2 26 26 26 26 26  
2 26 26 26 26 26  
2 26 26 26 26 26  
2 26 26 26 26 26  
2 26 26 26 26 26  
2 26 26 26 26 26





2 onell'g

S 2 1, 1 2 1,

2 2 1 - 1 - 1 2 1!

c D jff! u D! ~ jff!

c b o, d, p, r ~

g b, c? r E u ~

~ 2 - 1 2 1,

ea, c u (6) ~

r E, r h, - g b, - m?

~ jff (e o) 2 - w l e f 2 o r o b.

c x o n t, g f 2 s p ~

e, 2 b, 1 e, b v ~

g b, 2 r ~

2 2 1 0 1 ~ 2 2  
1 6 2, 2 2, 1 1 / 0 2,  
1 2 0 2, 1 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  
1 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  
1 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  
1 2 2 2 2 2 2

2007.01

1. 6. 2007. 2. 2007. 3. 2007.

4. 2007. 5. 2007. - 2007. 6. 2007.

1. 6. 2007. - 2007. 2. 2007. 3. 2007.

4. 2007. 5. 2007. 6. 2007.

2007.

2007.

2007. (2007)

2007.

2007.

2007. 2007. 2007.

2007. 2007. 2007.

— ~ ~ ~

6:

os! h d!

26:

g lb, me v/jz,

z p/z m, z d/zi;

v n t e w o u l z,

e s v ! m d w h z

l o s u p d! c · o d!

c · i l b, — d z) g l

- h - x, i z l e u

g u, ) x, ~ z b, z / j z u?

c b e, l b, o p v u u,

) ~ v z e n w t e r?



—  $h_1 n b e a f \cdot f$   
—  $o m \cdot 2 \eta w o r n e$ .

Q:

$\cdot e, c \cdot d r o \theta$ ,  
 $p l m \cdot 2 b, o n s b, r p e r!$

2b:

$e r \cdot h^2 \cdot 2 b, \sim e n \theta$ ,  
 $/ v!$

$g e r$

Q: (ggrc)

/ or?

or e?

1. 100' 20'

- 100'

100'

1. 100' 20' 30'

1. 100' 20' 30'

100'

1. 100' 20' 30'

100' 20' 30' 40' 50' 60' 70' 80' 90' 100'

100'

1. 100' 20' 30'

1. 100' 20' 30'

1. 100' 20' 30'



erzogen werden.

12. 18. 20. 21.

~ ~ ~ ~ ~

6:

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

13. 14. 15. 16. 17. 18. 19. 20. 21. 22.

23:

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.

6:

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

c - / e ' o o n

- 2 - r m u n

i z p e r z n g l .

d r - r n ! s g ,

h - r s i z o

- u b , r n u l n

e - r p e d h ' o !

u z s r e n - h ,

c s e d ' n g m

d a r - r z y / z p z h ,

c - r / s z p u .

am:

— hll<sup>o</sup> lrs r;  
1 b - c, 2 v, c / p.

6:

0: ~ lrs p!  
— m jrs l!  
- h y e - l h o  
2 c l r d ) o l r !  
- o / r d ; c o / o r,  
b r r, c r r d p r!  
h, — v l r, — w r r e<sup>z</sup>,  
z ~ r' z p p r r o l,  
z p l r o' r r r e,  
z r d r, o r r r o o l!

an:

Dz! ind: n;

- rj: sch.

v', u, v, v, v, v, v,

d, b, r, l - u, u.

o, z, z', i, e, j, u, u,

r, i, u, j ~ Eng!

- r, u ~ z, u, o, u, l,

z, o, c ~ u, u, l, g, u.

U:

e, u, m, l; e, z, z', l, u,

c, o, n, l ~ a, b, s, o, g, u?

u, s, z, e, j, u,

c, b, o, l, o, u, r, o, u, l.

am:

y! - in 20 yu,  
J<sub>2</sub> ~ 2b' y ~ J<sub>2</sub> p<sub>i</sub>  
J<sub>2</sub> o ~ J ~ co w p<sub>i</sub>,  
- o x e y f - m c p<sub>i</sub>.

6:

- h<sub>2</sub> ~ J<sub>2</sub> c!  
2 b o y f ~ m y  
2 J ~ 0 2 b b e n.  
c o r ~ 2 b' y ~ 2 b,  
e : p h e ~ m h 2 b,  
2<sup>2</sup> y J y p<sub>i</sub>.  
e s t e r a n t h e m!  
2 m f J c<sup>2</sup> f o e s.  
~ m l l o - m

- 2b° - 20° - 100

2 the map 2b,

06 ~ 66. Pre 10!

on:

- 1, 11° 20° 20° - 2b!

2 the 2 cost 10.

6:

1, 100 - 100 2b!

1, 100 100 100 100

1, 100, 100 100,

1, 100 100 100 100,

2 100 100 100 100,

100 100 100 - 100.

100, 100 - 100 100,

10° n. 112.

m:

1 - 2 m - 10 h 01,

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

2 2 m, 0 2 1/2 1/2,

1/2 1/2 - 1/2 h.

2 1/2 1/2 1/2 1/2 1/2;

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

1.

6: (—)

0 - 2 1/2 1/2 1/2 1/2 1/2,

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

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

- 1/2; c. m. m. 1/2 1/2.

el - 2 upgr x,  
c 2 ob v m, un?  
Dil nen, o,  
2 vob Ten ren.  
e, vob v s - g b, o,  
v, o g f n - t.  
D, g s a - v o o,  
e, v o n o g o f e t.

2, vob v n, e) j  
2, v o p o t 2 g o c n c n,  
o b p o 2 g o n y - n n,  
- v f l ~ r o n,  
2, v o s h o, o b e n d  
g p, e n i n a, j b o  
- g b e, 2 v o n n j p o





$2 \times 5, 10 \times 20$   
and he - he gl) ~;  
cry and cry,  
and he is h - a.  
is seen, and  
you are the p.

club) and 2 are h  
- 2 he y are  
- in the v r p,  
can say he z  
1, 0 2 2) p h z p,  
and are p r z p,  
and (b) - full - si  
be (j) for ~ 20 p,  
6 10 2 - 2 l, o c r - r e y p,

$\sigma \in \mathbb{Z}, \omega \in \mathbb{D} - \mathbb{R};$   
 $g \in \mathbb{D} \sim \sigma, \text{coll } \mathbb{D},$   
 $-\text{co } g \sim \mathbb{D}, \text{erbe } g \text{ au}$

$\sim \text{ran } \mathbb{Z}, \mathbb{D} / \mathbb{R} - \mathbb{D};$   
 $\mathbb{Z} \text{ can } \mathbb{Z}, \sim \text{good},$   
 $\sim \mathbb{D} \setminus \mathbb{R} \text{ ge } \sim \mathbb{D},$   
 $\circ \text{ co } \mathbb{D} \sim \mathbb{D} - \mathbb{D}.$

$\cdot - / \text{ ge } \text{ co } \mathbb{Z} \mathbb{Z} \text{ co}$   
 $\text{e } \mathbb{Z} \mathbb{D} \mathbb{D} \mathbb{Z} \mathbb{D}$   
 $\setminus \mathbb{D}, \mathbb{Z} \mathbb{D} \mathbb{D} \mathbb{D}$   
 $\mathbb{Z} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D}$   
 $\mathbb{Z} \mathbb{D}, \mathbb{D} \mathbb{D}, \text{co } \mathbb{D} \mathbb{D}$   
 $\circ, \mathbb{D} \mathbb{Z} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D},$   
 $\text{e } \mathbb{D}, \mathbb{Z} \mathbb{D} \mathbb{D} \mathbb{D},$

er - er - er  
co to be v, 2 er, 2  
see m, or, d m  
~ h n p - i o, g,  
2. H D C, h. M.  
r f u l g u r,  
2 e - m, c y - r.  
r g e r, r g o;  
g - u w. r, d x r /, r.  
p w r h n  
b) r - g u / u,  
- c o e r r b / h u r,  
e g d e r / r r r - r j i  
e d r, e r / r  
e g b - r, c d r h u.  
e d r, e r / r





h, m → 2 h 10 m  
g o e m j!  
r o d, i e t g o,  
u n t e m g f!  
x - y, p m j u o,  
e n o e l - r u s s l,  
u h e n 2 . / u n,  
z i) h e b j h e e d,  
D h o m a f f e n,  
r o n n e i n g 2 u l d;  
z a y i) z j g o,  
- c - 2 h, 10 / e j b o.

u n n a, r f i n u g e!  
z o e r t h e n,  
z i) h e h / p l!

g 2 y d e f h k l m n o p q r s t 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  
c d e f g h i j k l m n o p q r s t u v w x y z  
f g h i j k l m n o p q r s t u v w x y z  
h i j k l m n o p q r s t u v w x y z  
j k l m n o p q r s t u v w x y z  
l m n o p q r s t u v w x y z  
n o p q r s t u v w x y z  
p q r s t u v w x y z  
r s t u v w x y z  
t u v w x y z  
v w x y z  
x y z  
y z  
z



zur-2pr.

2. n:

v. pr.

Le<sup>2</sup> pr.

~ , l. pr.

z. pr. , l. pr.

v. pr.

6:

cd. pr. , cd. pr.

pr. pr. , pr. pr.

pr. pr. , pr. pr.

pr. pr. , pr. pr.

pr. pr. , pr. pr.

pr. pr. , pr. pr.

po r n h ve!

2: cu:

2 g p u

w r d t,

r o L u

w r 2 p t;

D - u e

w p e r t,

D! - r b e

n b / u x.

2: n:

n b . y e r!

o p \ u e,

\, u e,

2.0 - 1.0

the year.

6:

costs, 1.0 - 1.0,

1.0 - 1.0, 1.0 - 1.0?

1.0 - 1.0, 1.0 - 1.0.

1.0 - 1.0, 1.0 - 1.0;

1.0 - 1.0 - 1.0.

1.0 - 1.0 - 1.0,

1.0 - 1.0 - 1.0;

1.0 - 1.0 - 1.0,

1.0 - 1.0 - 1.0.

1.0 - 1.0 - 1.0

1.0 - 1.0 - 1.0;

1.0 - 1.0 - 1.0,





h u o e,  
l e n g o e,  
l o r e o e,  
c u s o e  
j . i . e s,  
j . i . e s!

# VOR DEM TOR

$\text{gpm} \rightarrow \sqrt{p} \cdot 20.$

$\sim \text{recursiv}:$

$\text{cm} \rightarrow \sqrt{20}!$

$i:$

$1 \text{ m} \rightarrow 20 \text{ to } \sqrt{20}.$

$i:$

$1 \text{ m} \rightarrow \sqrt{20} \text{ von}.$

$\sim \text{recursiv}:$

$1 \text{ m} \rightarrow \sqrt{20} \text{ von } \sqrt{20}.$

f:

1022/2

f:

College

~th:

122~h.

f:

Du... ..

122... ..

-22... ..



coll:

$g \rightarrow b^{\wedge} p$ ,

$\mathbb{Z}/p \times \mathbb{Z}/p$ ?

$\mathbb{Z}/2, \mathbb{Z}/4, \dots$

ord rel:

$\sim, \sim!, \mathbb{Z} \setminus \{0\}$

e:

1.  $\mathbb{Z} \setminus \{0\}$  is a group.

f:

e:  $\mathbb{Z} \setminus \{0\}$  is a group;

$\mathbb{Z} \setminus \{0\}$  is a group,

$\mathbb{Z} \setminus \{0\} \cong \mathbb{Z}^2$ .

consider  $\mathbb{Z} \setminus \{0\}$

i:

27. 10/10,

1. 10/10, 10/10, 10/10.

je:

10/10, 10/10, 10/10!

2. 10/10, 10/10, 10/10.

~ 10/10, ~ 10/10, ~ 10/10,

~ 10/10, 10/10, 10/10.

wereh:

10/10, 10/10, 10/10!

1. 10/10, 10/10!

10/10, 10/10, 10/10,

10/10, 10/10, 10/10!



un:

~ , f/v/; ~ u n b!

~ , e i; ~ n e b.

- l, g d c o h e i?

~ l e n g t h

p h i n o s o n,

- j e r o s o l.

un: (b)

~ n e n, ~ j e n b,

- c y g - u n s,

~ - s, ~ p p s,

- o - v e r ~ !

b a r t m o s e n!

~ . l, ~ n s.

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

✓ l d ~ n h.

2. Wn:

1000, v ~ o ~ - l u m

o ~ p l s ~ r - r a f,

c a t, c, z i m,

1. L o n s e p n.

u g r a b t, h o r s h o

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

e n t u v e l s D z,

- o n k e - b e g.

2. Wn:

z n d u, h. - o p o D p u:

b r n, i, n l p t,

v o e l s D z;

$\partial \rightarrow \int_2 \text{wird}$

$\int: (j \sim \text{wird})$

$\rightarrow ! \text{af} ! \text{ez} \sim \text{L} \text{af}$

$\text{a}^\circ \int_2 \text{wird}$

$\rightarrow \text{f} \text{af} \text{af}$

$-\text{ca} \text{af}, \text{eb}_1 \text{c} \int \text{gh}$

$\text{wird}:$

$\text{m}, \text{P}_1 \text{r} \text{v}_2 \text{R}_1$

$\text{v}_2 \text{L} \text{L} \int \text{m}_i$

$\text{b} \text{p} \text{v}_2 \text{af} \text{af}$

$\sim \text{af} \text{af} \text{af}$

1. l:

v f t b r r f,

o l h, l u m u h;

1 o v r, 1 o r s,

u v -, l u m.

o l h:

u m l z z

z u - j,

z h l f f

z u o m

z l, p u!

n i e r,

n i u!

-, l<sub>2</sub>  
o r a n,  
o j l e,  
- j e h.  
e i n g r u!  
e i n n!  
r e h - u m  
v o j n.  
n i e r,  
n i i!  
- , o e h  
j e e f.

l<sub>6</sub> - o n.



6:

Sod  $z$  für  $D$

$r \circ b \circ z \text{ er, } u \text{ er } u;$

$R \text{ er } h \text{ er } z \text{ er } z;$

$\text{Sod, } z \text{ er } z;$

$f \text{ er } z \text{ er } u \text{ er } x.$

$\text{Se } P \text{ er } u, \text{ } u \text{ er } u;$

$\text{er } u \text{ er } z \text{ er } u \text{ er } u$

$z \text{ er } h \text{ er } u, \text{ } u \text{ er } u;$

$u, \text{ } u \text{ er } u \text{ er } u \text{ er } u;$

$z \text{ er } u \text{ er } u \text{ er } u;$

$u \text{ er } u \text{ er } u \text{ er } u;$

$u \text{ er } u \text{ er } u \text{ er } u$

$u \text{ er } u \text{ er } u \text{ er } u.$

$u \text{ er } u, \text{ } u \text{ er } u$

$u \text{ er } u \text{ er } u.$



der) & f m.  
65° w o h n t e r  
w o r t b u c h e n  
12 v j ° e b p;  
20° L o o c u d;  
f e r b y 20 - m:  
2 v, 2 v, 2 e l t o o!

am:

2 /, 2 e, j g m  
m - p;  
d<sup>2</sup>, 1 - p, w;  
c, 1 - h e l - e r s v.  
e l l e r, f u, r g h  
v - u s o n;  
6 v u d l o o z b p

- m'le. m'p.

unl' r.

ly - p.

\ z h (y' ) j h y,

2 L L h, v e - m y,

z a i y f n.

j r i r e a - u,

- e o h y' j o L.

h<sub>2</sub>! h<sub>2</sub>!

~~h<sub>2</sub> o! 2 o! 2!~~

- r' l e n.

$\sqrt{26} \cdot 2$

$e_1 \rho \sim \sim \sim$

$2 \sigma \sim \sim$

$(\text{homom}, )_2$

$- \sigma : \sim, e \rho e, e_2!$

$h_2! h_2!$

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

$e_1 - \sigma \rho \sim!$

$\partial_2 \rho^2 \sim \sim \rho_0'$

$6 \text{ hff } \rho_0, 6 \text{ hff } \rho_0$

$- \sim \sim \sim$

$6 \text{ hff } \rho_1, 6 \text{ hff } \rho_1$

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

$h_2! h_2!$

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

-  $\mathcal{H}_n$  -  $\mathcal{H}_n$ .

-  $\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

-  $\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

-  $\mathcal{H}_n$  -  $\mathcal{H}_n$ .

$\mathcal{H}_n$  -  $\mathcal{H}_n$ .

— ~ND~ g d m,  
~ r 2 b p L p d,  
r b r j - o f s,  
e l t ~ a b g d:  
i f l e, i a t,  
— ~ m p d.

U:

r r ~ b p d  
k' s e n z - e n.

e L a d ) R r o p.

U:

l a, i o c p,  
e r a b z n g d;

21, 2002  
~ 2004  
with 1000  
~ 2004  
2004, 2004,  
2004, 2004.  
2004, 2004,  
2004, 2004,  
with 1000,  
2004, 2004,  
2004, 2004,  
2004, 2004,  
2004, 2004,  
2004, 2004,  
2004, 2004.

2004

2004, 2004,  
2004, 2004!



6:

— Lren gpt,  
— 2hnt - 2dgt.

— 220000.

an:

— 20000, — 20000,

— 20000!

— 20000

— 20000!

— 20000,

— 20000 - 20000,

— 20000, — 20000.

— 20000, — 20000,

— 20000, — 20000,

-  $\omega^2$ ,  $-\omega^2$ ,  $m$ ,  
on  $e$   $L$   $v$ .

6:

$\rightarrow \omega^2$   $2\omega^2$   $L$   $g$ ,  
 $x \rightarrow r$   $z$   $\omega^2$   $b$ .

$x$   $0$ ,  $L$   $g$   $m$   $o$   
 $-E$   $P$   $z$   $u$   $-z$   $b$ .

$\sim z$   $h$   $z$ ,  $P$   $z$   $b$ ,

$z$   $L$   $g$ ,  $o$   $g$ ,  $x$   $o$   $m$

$o$   $L$   $e$   $z$   $L$   $b$

$L$   $z$   $o$   $z$   $g$ .

$\sim$   $v$   $L$   $L$   $v$   $o$   $z$ .

$-$   $L$   $g$   $z$   $m$   $o$ ,

$o$   $L$   $L$   $-o$

$g$   $o$   $o$   $L$   $g$   $o$ !



— 2122. *g* *u* *u*

29 *u*, 9 *u*

*g* *u* *u*, *g* *u* *u*.

126 ~ *u* ~ *u* *u*:

6 *u* 2, 120 *u*,

*u*, *u* *u* *u*.

*u*:

0 *u* *u* *u* *u*!

41 ~ *u* *u* *u*,

1, 2, 1, 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*.

6:

—  $m, a, 2, 2, h, n,$

$\circ, \rho, \tau, \circ, N^{\circ}, \rho, \Omega!$

$\text{con} / \text{co}, e, m, \Omega, m,$

$-\text{con} \text{co}, n, \tau / \Omega:$

$\partial, \circ, \tau, \rho, \rho, \tau, \circ, \tau$

$\rho, \Omega, \rho, \tau / \rho, \tau!$

$\Omega, \circ, \tau, \rho, \tau, \circ, \tau$

$, \rho, \tau, \rho, \tau, \rho, \tau.$

$\circ, \rho, \tau - \rho, \tau, \rho, \tau,$

$e, \rho, \tau - \rho, \tau, \rho, \tau, \rho, \tau.$

—  $e, m, \Omega, \rho, \tau, \rho, \tau$

$\rho, \tau - \rho, \tau, \rho, \tau!$

$\rho, \tau, \rho, \tau, \rho, \tau,$

$, \rho, \tau, \rho, \tau, \rho, \tau,$

$\rho, \tau, \rho, \tau, \rho, \tau, \rho, \tau,$

~ $\mu$  D<sub>22</sub> in f<sub>10</sub>.

12<sup>te</sup> ~ 22<sup>te</sup> 2<sup>te</sup>

\`de w<sub>2</sub> en o phi

g<sub>42</sub> ) 2<sup>te</sup> 2<sup>te</sup>

~ $\mu$  2<sup>te</sup>.

2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>;

~ $\mu$  2<sup>te</sup> 2<sup>te</sup>,

~ $\mu$  2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>,

~ $\mu$  2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>,

~ $\mu$  2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>.

~ $\mu$  2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>.

D<sub>1</sub> 2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup> - 2<sup>te</sup>

~ $\mu$  2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>.

2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>

2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup> - 2<sup>te</sup>,

2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup> 2<sup>te</sup>,

↑ zweif., nicht 6/;

c & f h l l s s z

↓ er opt / j d,

- s l l h, s o n

↓ w l d' z u f d.

am:

↑ l b l l b s g e w

↓ 2 k s, 1 2 ~ g e i

2 u o j / l ~ c e - l e n o t,

o f z e l l p c, 1 2 u e h.

o s t h s, 1 2 l e n

S u j d, S u j u t

e s c o t l l z e - j u

~ o f l u c u t e s t,

- D. l u e d e s z ~ o f l u c u t e s t,

—  $f \sim \text{auf } \mathbb{R}^n$

U:

$e_1 \otimes e_1 \rightarrow \dots \rightarrow \mathbb{R}^n \otimes \mathbb{R}^n$ ,

—  $\text{und } \sim \text{hmm!}$

$f \text{ on } \mathbb{C}^n, D: \mathbb{R}^n \rightarrow \mathbb{C}^n$ ,

1.  $\rightarrow \text{S' h h;}$

1.  $\rightarrow \mathbb{R}^n, \mathbb{R}^n \otimes \mathbb{R}^n$ ,

$\mathbb{R}^n, \mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$ ;

1.  $\rightarrow \mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$

$\mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$

—  $\mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$ ,

1.  $\rightarrow \mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$

—  $\mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$

—  $\mathbb{R}^n \otimes \mathbb{R}^n \rightarrow \mathbb{R}^n$

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



- n, d, he re!  
v d, r, n b p e,  
l e r n n o.

an:

u l, c a n t p,  
1 f r e) r e d r o s t,  
2 r g u e l t f r,  
S e n r e z, u.  
S e n r e z, u l r t p  
s d a, r e g g t p r i  
S e n p, l u e, b z,  
- n n) S e n r i  
c o' m e' d' z l,  
1, 7, 5, 7, 2, e, z' z h  
- W' c b ~ z r, i, d, l, l,

red - be - 1/2 li  
62 m m, 1/2 m 1/2 p d,  
p d m, c 65 m m;  
6 for c 1/2 m) p d,  
- for r d, c 6 m.  
d m r! 1/2 j, d,  
1, d p d; r d!  
n w e j/2 m d e 2. m  
c o f b e y - w b y/2 d  
c o n d i e r y - d h e?

6:

b e y ~ j/2 m 1/2 d - j/2 f h e?

am:

10 r r z, / d' g - v.

Q:

Mr. Silvester?

am:

l - e, s o c o

15 p - o m Gt.

Q:

unbe, o z c z m o

1250 - m r m h?

- 1 1, - p - l z fe

5 o l e 2 k.



am:

$e, b! \sim 20, - \sim p d \cdot e.$

$\sim \sqrt{-} f(l, d) s \sim 0,$

$\sim \text{cel.} \rightarrow 20(0).$

lf:

$p \sim d, j, s! \sim 20!$

am:

$i \sim \text{Cen} d r.$

$e, p b, g, \sim \text{cl} s;$

$e, p b \sim \sim, \sim p \sim 0 2 s;$

$\sim \text{co}, \sim \sim \sim;$

$\sim \text{Der} \sim \sim \text{co} \sim \sim.$

6:

$g \in C \setminus \mathbb{N}_i, |g|, p$

$S \setminus \mathbb{N}_2, -\infty, \infty$ .

an:

$2 \times 2, C, 2, p, n,$

$1, b \sim \text{comp}$ .

$h, e \setminus \mathbb{N}_2, \mathbb{N}_1 - \mathbb{N}_2,$

$\setminus, \text{fer } h, n, o$ .

$6 \times 2 \times e \text{ get}$ .



$\sim \text{ge}! \sim |2 - \epsilon!$   
 $\sim \text{ge} \cos \rho \text{ ge} \rho?$   
 $\sim \rho \rho \rho \sim \text{h} \rho,$   
 $\sim \text{ge} \rho \sigma \rho \rho,$   
 $\sigma \rho \rho \rho \rho^2 \text{ with } \rho$   
 $\rho \rho \rho - \rho \rho \rho \rho / \rho,$   
 $\sim \rho \rho \rho \rho \rho, \rho \rho,$   
 $\rho \rho \rho \rho \rho \rho \rho \rho.$

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



D. D<sup>o</sup> no E 2.

$m_1, C_1 \sim 2^{\mu} L_m,$

$\cdot \frac{1}{2} \cdot 2^{\mu} \cdot 2^{\mu},$

$\rightarrow \cdot 2^{\mu} / C_0.$

$r^2 \cdot \frac{1}{2}, e, 2^{\mu} \cdot 2^{\mu},$

$C_0 / \mu,$

$e_0 \sim 2^{\mu} \cdot 2^{\mu} - 2^{\mu},$

$e \sim \frac{1}{2} \mu; \mu_i$

$\rightarrow \cdot 2^{\mu}, C_0, \mu_i?$

$\mu \cdot \frac{1}{2} \cdot 2^{\mu}, \cdot 2^{\mu} \cdot 2^{\mu},$

$\frac{1}{2} \cdot 2^{\mu} / \mu \cdot 2^{\mu} \cdot 2^{\mu}.$

$\mu \cdot 2^{\mu} \cdot 2^{\mu} \cdot 2^{\mu},$

$\rightarrow \cdot 2^{\mu} \cdot 2^{\mu} \cdot 2^{\mu}?$

$e_0, \cdot 2^{\mu}.$

der in b) zu,  
runcesst zu,  
ronsdley,  
inre den - zu l  
s z z zu l.  
der, - best zu,  
der b -  
e z z -  
z z p d j zu,

z z - L u s - z z ) z.

zu zu: » z z l r e e l ! «  
z z z z ! a z l v c l z  
z z e e l - z z z z zu,  
z z - z z zu,

c, s, z, b, n, v, u:

ff, gg, p, b, c, i, o:

u, e, c, i, f, j,

ee, le, j, s, t!

· i, o, i, e, o, u, - jll?

- f, g, p, b, c, i, u!

e, d, n, r, o, v, u,

g, c, v, p, c, e, i, a, l, u.

v, z, l, r, b, s, r, o, s, i, t

- f, p, b, p, b, c, i, u!

o, i, z, o, e, p, u, l, u,

C, e, - o, e, z, u,

- o, e, l, u!

I, n, g, v, e, p, u,

v, i, i, i, s, e.

~ 15 1/2  
20, 1/2 1/2  
p m x, e 2 1/2 1/2,  
1, 1/2, 1/2 1/2.  
u c o 2 0, 1 1/2!  
n e m p p 2?  
- p 2 1/2 1/2?  
o' 2 1/2 1/2 - 1/2!  
- 2 1/2 1/2,  
e: 1/2 2 1/2 1/2!  
c d ~ p 1/2 1/2 1/2 1/2!  
g d, o ~ 1/2 1/2,  
2 1/2 1/2 1/2 1/2 p.  
- 1/2 1/2 1/2 1/2!  
l 2 2 2 1/2  
- 1/2 1/2 1/2 1/2

26: (5<sup>2</sup>n)

on pi!

u<sub>20</sub>, l<sub>1</sub> p<sub>1</sub> n!

o<sub>1</sub> p<sub>1</sub> o<sub>1</sub> b<sub>0</sub>

p<sub>1</sub> ~ ∫ 2 ~ o<sub>1</sub>.

u<sub>1</sub> w<sub>1</sub> n!

g<sub>1</sub> 2, g<sub>1</sub> E,

s - r,

- \ ) - o<sub>1</sub> n.

√ r p<sub>1</sub> n!

b<sub>1</sub> n / o<sub>1</sub>!

e<sub>1</sub> \ u<sub>1</sub> n

g<sub>1</sub> E / p<sub>1</sub> n.

6:

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

1/1000000

$\rho = \rho_0$ ,

$\rho = \rho_0$ !

$\rho = \rho_0$ ,

$\rho = \rho_0$ !

$\rho = \rho_0$ ,

$\rho = \rho_0$ !

$\rho = \rho_0$ ,

$\rho = \rho_0$ !

$\rho = \rho_0 - \rho_0 \sim \rho_0$ !

$\rho = \rho_0$

$\rho = \rho_0$ .

$\rho = \rho_0 - \rho_0 \rho_0$ ;

$\rho = \rho_0 / \rho_0$ .

$\rho = \rho_0$

$\rho = \rho_0$ .

6 e, p

~ 0 0 2

— 0 9 2

2 6 ) 2

1 2 2 2

2 2 - 5 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' ~ h p d,

g' - o ~ d d

~ r p r b l - ~,

- j n f l o .

g r / j e r z !

r d j ~ r b l o !

e b, e i / m o e s.

r o r d r z m s !

r t /

e e r o e s !

r t /

r p b t r ~ r t !

r l f l o k t, r i r e l, p e r o ~ h e r z g r o, 2' 2  
h a.

df Co.

ej in co p<sup>2</sup> zu j ed?

6:

e o a<sup>o</sup> Co m!

~ wa o p<sup>2</sup> roo v v R.

df Co.

roo ~ p<sup>2</sup> zu!

roo v Co p<sup>2</sup> R.

6:

o n d e p<sup>2</sup>?

2/3 Leo.

1. h z / v m

l i ; e c t - o M,

3. d u l l - e z,

4. i c o d M.

6:

1. 1, 2 m, 3 m e c o

f u e <sup>2</sup> m o,

c - j - e z c b,

c u 1 b m s, e n, m z b.

m z, a b e e?

2/3 Leo.

1. 1. 1. 1. 1.

1. 1. 1. 1. 1.

6:

co: 2 92 ~~sc~~ / pnt?

alg Leo:

1 v' 2 b; j a m l!

- e l l; e a e o, c o g g,

• c l, e - s t e v;

e l o c', e i g e.

— e a e o, c o r o e,

f f, v g, e l o m l,

v m' m l.

6:

e m d e p ~ l; - j b e n g ~ v?

2/3/60.

2/3/60, 1/10.

c) 2/3, 1/10, 1/10

1/10 - 2/3, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

1/10 - 2/3, 1/10, 1/10

6:

~ ~ ~ ~ ~  
g ~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~

2/3 Leo:

- ~ ~ ~ ~ ~  
Co) ~ ~ ~ ~ ~  
e ~ ~ ~ ~ ~  
F ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
2 ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~



df lo.

r → om 5 10,  
1. 10 2 2 2 2!  
all, c. no. 10 10 10?

6:

1. 2 1, c. 10 10.  
1. 2 10 10 10 10  
10 10 10, c. 10 10.  
1. 10 10, 1. 10,  
~ 10 10 10 10.

df lo.

10 10 → ! 10 20 10,  
10 10 ~ 10 10 10,  
10 10 10 ~ 10 10



6:

e l m n o p q r

— a v, y o — 2

c e d w, a n d y e 2?

a o e — 2 2 b d n?

2/3 6:

y r — 2! — 1/2 y n:

— a n; — 2 o j,

; a e b, — a l h.

6:

e s — 2 y p h!

— 2 p i n c b e y?

e: s g h p n!

2/3 60:

\text{Cent } 1, 0, 2 \text{ yhu}

, 0 1/2 1/2:

\text{Cent } 1/2^2 2:

6:

0 1/2 1/2 1/2 1/2?

2/3 60:

' : ~ 1/2 \text{Cent} - 1/2:

0 1/2 1/2, 0 1/2 1/2 1/2

0 1/2 1/2, 1/2 1/2 1/2 1/2

6:

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

0 1/2, 1/2, 0 1/2) ~ 1/2,

-  $\beta$   $c, z, \gamma, r, z, \rho, \sigma$ ?

alg. L<sub>0</sub>:

com  $\beta, e^{\circ} \gamma \sim \rho, \sigma$ ,

$e^{\circ} e^{\circ} \gamma \gamma$ .

$e^{\circ} / \sim \gamma \rho$ ,

-  $r \beta e \rho \beta$

$e \gamma \sim \rho, \sigma \sim \rho, \sigma$ ,

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

L<sub>1</sub>:

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

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

2/3 lo.

gob. d. n. r. u. p. i.  
e. r. d. e. n. d. u. h. n.

6:

12 e. / n. p. f. l.,  
b. e. g. b. o. m. m.  
~ l. e. 2. t., a. n. 2. l.  
f. r. / - e. j. f. z. h. n.

2/3 lo.

c. e. o. u. l., - v. n. d. u. l.,  
e. / p. o. f. z. / u. h. n.;  
d. r. e. n. o., e. / f.  
r. z. n. o. t. o. o. j. h. n.



26:

ge<sup>1</sup>, 1<sup>er</sup>

ca<sub>2</sub>er!

ge<sup>2</sup>

ca<sup>1</sup>er

ca<sup>2</sup>!

ca<sup>1</sup>, 1<sup>er</sup>

ca<sup>2</sup>er!

ge<sup>1</sup>er

ca<sup>1</sup>er

ge<sup>2</sup>er

ca<sup>2</sup>er

ge<sup>1</sup>er

ca<sup>1</sup>er

ge<sup>2</sup>er

ca<sup>2</sup>er

lmax;

-`pe

lwe ve

en, se,

en, a,

c) b. n,

h, z. p. n,

ve n.

u v a!

f b e m!

b h

g f n o s t

ve n t,

g f z h

z v e s,

v o p n,

ef,

o, 22

2) M,

Ujon

)<sub>2</sub> r<sub>2</sub>

we r.

-e/r

g<sub>1</sub>) c,

em' o,

em ~ 2

em m,

1) s c

we w;

c r 2 2

g<sub>2</sub> 2

s ~ 2



lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju

lye ju.

lye ju! — lye ju! lye ju!

lye ju! lye ju!

l9 ~ p/ v 12 ~ r ze  
y, b 2/ ~ r, ~ l l b p f!  
v ~ r ~ 2 0 h p f,  
w ~ r ~ r ~ r ° c o;  
d r z p p / h p f,  
u e l, ~ o ~ h p o.  
l ~ r ~ b, / y ~ r,  
z p f - r - ' ~ r / p 2 r.

` r ` r - ` r o,  
` b r, l y, c p r, ~ o  
u b o, d 2 j o n  
- r z p / l r r,  
- r, b r ~ u p ~ r  
e r ~ d e j z p p f!  
- b r ~ c r !, p f, r p l f,

6 of my ...

2 ...

... , ... , ... , ...

6: (vdr)

v ...

ge ...

ev ...

-e ...

# STUDIENZIMMER

U. vlg. lo.

U:

- n! 2! a - v E Cn!

vlg. lo.

1 v.

U:

2!

vlg. lo.

g r b - v r n.

6:

2 a!

alg. Geo.

— fied by v.

$r^2, 2b, 5$  km;

er or, km, km,

$v_1, 0$  er km, 2,

$2, n, 2$  abt<sup>2</sup> me,

er with 1 gm or,

$1, 2$  abt  $5^2$  2,

$2$  km, km, km,

— km or, km — 2,

$2$  km, km, km;

or km, km, km,

km, km, km.

6:

2 der  $e^c, c, C$

o  $n$  resobor.

1  $v$  /  $d, r$  /  $g$ ;

$f$   $h, r$   $\rightarrow$   $g$  /  $o$ .

conidvcpm?

un<sup>o</sup>  $g!$   $u$ !

$e \cdot \sigma$   $p$ ,

der  $n, m$   $n$  /,

$\sim$ ,  $f$   $n$   $p$   $n$   $n$ ,

$f$   $z$   $o$   $h$   $g$   $o$  /.

$\rightarrow$   $z$   $h$   $p$   $D, r$   $n$   $o$   $s$ ,

$z$   $h$   $h$   $h$   $h$   $h$ ,

$\sim$   $n$  /  $o$   $z$ ,  $v$   $z$   $o$   $h$   $h$

$h$   $g$   $h$   $h$  /,  $h$  /,

$\backslash$   $b, n$   $h$   $h$  /



uly lo.

- 0.2' le ~ 2y ~ 2b.

6:

- 1. 0.2' ; 2. 1. 0.2' y

1. 0.2' ~ 2. 1. 0.2' y,

~ 1. 0.2' y,

2. 0.2' y.

- 1. 0.2' ~ 2. 1. 0.2' y

y, 1. 0.2' y.

uly lo.

- 0.2' y ~ 1. 0.2' y,

2. 0.2' y.



6:

e.g., z; e.f.

df. lo.

df. v. 1; df. v. v. v.

6:

c<sup>2</sup> p m p

~ o u t l v f s

~ b s v e a f

2 m l s f d s

— b<sub>1</sub> v, c<sub>1</sub> o

2 m = - 2 c m r f l

- b 2 r 4 2

2 m = - z 2 m l l

l l e i 2 2 2

U-26) 6 26!

Mewi-gy,

1) ~ 2 5 2!

U, C O T = L u 2 2!

o u, i n d e s h!

U, C O S O S T z 2!

o c u - r e, o n l - l y!

U - v, c 2 y

1) j m m d,

c, j v b<sup>m</sup> y

1) C d T p l d!

U - 2 w o l l - h!

U L u 2 2 1 0 2 e!

U - 2 h y! U<sup>2</sup> w

- U - u i p e!

26, 2: (flur)

os! os!

g 26 flur

1, 2 ~ d,

2 200 6;

6 flur, 6 flur!

~ 200 10 6 flur!

1 h

1, 100 10 24,

- 200

8, 100 200.

200

1000,

200

4 6 E,

200 6 4 6 5!

~ I had

un,

2220,

~ I do

Lines!

2/2/20

9<sup>2</sup>, un

f ~ 2

22, 0/6 - un

22/6 un!

2, 0/6,

0 - un

con - off un,

un 6 un.

z, s, zesh, j, p;

; a ~ z, v, a, n, u, b;

, g, b, p, f, b, d, b;

ee ~ z, g, z, z, g, b.

d ~ b, p, r

d, b, e, c, j, g, o.

, v ~ s ~ z, o;

d ~ e, z, v ~ l,

e, p, s, a, n, u,

— → , v, m, b, u,

e, j, o, s, f, e.

, v, e, p, e,

— v, e, b,

v, e, o, v, e, n, b!



crude ether,

— ether L.

6:

ether & water,

2 g of ether,

1 g of water.

— ether L.

— ether L.

— ether L.

ether, 10% — ether.

ether, 10% — ether.

ether, 10% — ether.

ether, 10% — ether.

ether, 10% — ether.

2/3

$z \in \mathbb{C} \setminus \mathbb{R}$

$w \in \mathbb{C}; \gamma^0, z \in \mathbb{R}$

$z \in \mathbb{C} \setminus \mathbb{R}$

$z \in \mathbb{C}, \text{conjugate}$

6:

$\text{conjugate}$

$z \in \mathbb{C}, z \in \mathbb{R}$

$z \in \mathbb{C} \setminus \mathbb{R}$

$z \in \mathbb{C}, z \in \mathbb{R}$

$z \in \mathbb{C}, z \in \mathbb{R}$

$z \in \mathbb{C}, z \in \mathbb{R}$

$z \in \mathbb{C}, z \in \mathbb{R}$

$z \in \mathbb{C}, z \in \mathbb{R}$

$z \in \mathbb{C}, z \in \mathbb{R}$



~ 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

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

negativ  
e - l - d - j - n!  
i - c - u - t!

2/3 lo.  
✓ C!

6:  
- p - s - p!  
c - j - n - o - n:  
e - d - e - b - z - p!  
e - d - e - p - z - l - o - n - p - n,  
e - i - m - s - t - e - n!  
e - n - i - t - e - r - z - e - n,  
e - b - e - e - o - d - l,  
i - n - v - i - s - i - b - e - l - e - n,

- 1, f l p u!

df lo.

u n - c, r co / no.

6:

ey e ~ co h;

12 p / h no.

o, u, v, m, b,

r e, c o h, a co.

df lo.

1 c 2 2 2, u e z,

o n 2 p l b.

→ e! m 2 d o e p h o

u, v ~ a f o e.



$y, w, \text{Am}, \text{Ar}$   
 $o, r, h, r, o, \text{ler}, \text{f}, \text{w}$   
in secol.

2/3 lo.

ordere in  
→ 2/3 - 1/3  
• 2 - 1/3  
e.g. 2/3 1/3 1/3

6:

cor → 2/3 1/3  
→ 1/3 1/3 1/3

2/3 Leo.

41 ~ 2/3 1/2.

4:

→ ~ 6-10, e, 1, 9, 10, 12!

e für 2 ~ 2/3 1/2

• 10 e, 10, 1/2.

12 1/2 1/2 1/2,

20 ~ 1/2 1/2.

20 2 1/2 1/2,

~ 1/2 1/2, 1/2

• 10 1/2 1/2

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

10 1/2 ~ 1/2 1/2

1/2 1/2 ~ 1/2 1/2!

2 1/2 1/2 ~ 1/2 1/2

— Leo ce 2) W!  
ggr 152 e yif,  
no — un' uny!  
enre zy — ro,  
gr — so  
2nd bar, 0 — n;  
— 50 un) — w.

elf Leo.

— Jim 20 — y pf.  
W' 1, 50 / yu,  
R bar ko / yu,  
w 1 c, co / yf.  
— 200 v / — e / ce!

6:

g 2 v h, S L e' i, e.

2 h c s, v, 2 g f b r o,

M<sup>2</sup> 20, k v e r e o.

2 u o, i s o o r p d ;

o r z g r n l l' ) g o,

- c o' 2 g r 2 g g p d ;

- 1 2 2 r m m b r o,

2 2 2 b e 2 k' - d' 2 h,

^ c - o s 2 r u o 2 h,

- 2 r m b j r b e m,

- , o b b, r e D, j f m.

2 f l o.

- 2 v, 2 h 4 c h

~ 2 2 f o m



eS - 22/12

~ 22 ~ 22 ~ 22 ~ 22

22, 22, 22

• 22 ~ 22 ~ 22

22 ~ 22 ~ 22

22 ~ 22 ~ 22

22 ~ 22 ~ 22

22

22

22

22

22

22

22

o p w r r l u,  
b r n r p u g h,  
- e e l t h

r u n g z h

o u r,

o r p o z h,

o p u e l p l e,

o r e o l t h.

b r s e p w o l e,

z b r - r o b j u e,

- r r e a n t r o l l e,

r r e l e p e t h.

r r b r r n n n,

s' r n n v w o o n n.

Q:

course, c-122;

2pp, 1/2, 1/2;

1/2 - 1/2

df. 10.

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

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

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

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

Q:

1/2, 1/2, 1/2

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

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

1/2, 1/2, 1/2;

$10/2 \sim 21/22,$   
 $10^2 \text{ per } 1/22.$

alg. Co.

$2 \sim 22, 1 \sigma, 1 \delta,$   
 $0 \sim 1, 2 \sim 1 \delta;$   
 $1 \sim 10 \text{ e } \rho \text{ } \delta,$   
 $1 \sim 10 \text{ e } \rho \text{ } \delta.$   
 $10 \sim 10 \text{ e } \rho \text{ } \delta$   
 $- \sim 10 - 10, 1, 2 \text{ e};$   
 $10 \sim 10, 10 \sim 10 \rho \delta,$   
 $1 \sim 10 \text{ e } \rho \text{ } \delta$   
 $10 \sim 10 \text{ e } \rho \text{ } \delta,$   
 $2 \sim 10 \text{ e } \rho \text{ } \delta,$   
 $1 \sim 10 \text{ e } \rho \text{ } \delta$   
 $10 \sim 10 \text{ e } \rho \text{ } \delta$

2. H! 0. 0. 0. 0.  
- 2 2 2, d 2!  
1 0 - 0: ~ n, j p d,  
• 0 ~ n, s o m z e  
S r o 2 b r n o z p d,  
- s o p d z h c e.

6:

o b u r e n t

u f f o.

r m n l.

c i e l ~ w t ?

c o s t e l ~ n b,

]-, h o n t ?

s e g e <sup>2</sup> n s t a c d!

co-ef de f, j, q, n!

elb, co y d n,

elb y ~ u d / n.

2 2 n, ~ s^2 n!

U:

v p/2 n, ~ j/2.

df lo.

\ n n e d n,

\ e d / p b n.

n, n v e ~ - v;

n v v n b f.

\ n e j n

~ 40 - 200!

1/2 - 1/3 of 1/2;

200 - 200/2 = 100!

41.

2/3 of 1/2 (2/3 of 1/2)

1/2 - 1/3 of 1/2,

2/3 of 1/2 = 1/3,

1/2 - 1/3 = 1/6,

1/3 - 1/6 = 1/6,

1/6 - 1/12 = 1/12,

1/12 - 1/24 = 1/24,

1/24 - 1/48 = 1/48,

1/48 - 1/96 = 1/96,

1/96 - 1/192 = 1/192.

~  $\mathcal{H}_1$  p.e.c.l.s.,

p.l.d. p.e.w.,

\circ v. p.l.s., g.m., r.l.s.,

- o. p.l.

\circ p.o. - h.m. - v.l.h. k.g.z.;

\{ l.o.s. \} v.o.d. h.m.,

-  $\rightarrow$  1. )  $D/2^2$  L.l.s.m.,

\ v.o.l.h.e. m!

~ g.m. N.S.

g.m.:

1. v. o. l. h. e. m. f. f.,

- m. m. m.,

~ m. j. p. l. - j. m.,

~ v. l. h. e. m.



alg. lo.

— 2 6 4 2 0!

1 0 1 2 0 2 0.

0 1 1 0 2 2 2?

gen:

1 0 1 2 0 2 0!

1 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.

alg. lo.

2 2 2 2 2 2 2.

ger:

$\mathbb{R}^n, \mathbb{R}^m \in \mathbb{R}$ :

$z \sim z_m, \rho \sim z_m$

$\rightarrow v \sim \sigma \theta \text{ für}$

$i \sim \text{in } \mathbb{R}^n$

$z \sim \rho \theta, \rho \sim \theta$

$z \sim \sigma \theta, \rho \sim \theta$

$M \cup z \sim \rho, \sigma \theta \sim \rho$

alg. Geo:

$e \sim \rho \rightarrow \rho \sim \theta$

$\rightarrow \rho \sim \rho \sim \theta$

$1/2 \rho \sim \rho \sim \theta$

$\rho \sim \rho \sim \theta$

$\rightarrow \rho \sim \rho \sim \theta$

$z \sim \rho \sim \theta$

gen:

$$\sim \mathbb{R}^2 \otimes \mathbb{R}^{-1} \oplus \mathbb{R}^2 \otimes \mathbb{R}^1;$$

$$\partial \otimes \mathbb{R}^1 \rightarrow \mathbb{R}^2 \otimes \mathbb{R}^2;$$

df<sub>0</sub>:

$$\mathbb{R}^2 \otimes \mathbb{R}^1 \oplus \mathbb{R}^2 \otimes \mathbb{R}^1;$$

$$\mathbb{R}^2 \otimes \mathbb{R}^1 \oplus \mathbb{R}^2 \otimes \mathbb{R}^1;$$

gen:

$$1 \otimes \mathbb{R}^2 \oplus \mathbb{R}^2 \otimes \mathbb{R}^1;$$

$$-2 \otimes \mathbb{R}^1 \oplus \mathbb{R}^2 \otimes \mathbb{R}^1;$$

$$-2^2 \otimes \mathbb{R}^1; \mathbb{R}^2;$$

$$1 \otimes \mathbb{R}^1 \oplus \mathbb{R}^2 \otimes \mathbb{R}^1.$$

alg. Co.

es ist  $r \cdot s = 1$  in  $R$ ;  
d.h.  $r$  ist invertierbar.

gen:

1.  $r$  ist invertierbar;  
2.  $r$  ist von  
~  $r \cdot s = 1$  in  $R$   
~  $r$  ist invertierbar.

alg. Co.

1.  $r$  ist invertierbar;  
2.  $r$  ist von  
~  $r \cdot s = 1$  in  $R$   
~  $r$  ist invertierbar.  
es ist  $r \cdot s = 1$  in  $R$ ,

2 pff glen ~ pff,

e. wblm - h

2g 2, pff, h,

-1/10, 1/10 - h,

h 2-2.

e. wblm ~ h 11,

e. wblm ~ h 11

h, 10 - h 11,

h. 1/10 ~ h 11.

h. 1/10 ~ h 11

h. 1/10 ~ h 11,

e. wblm ~ h 11,

h. 1/10 ~ h 11,

h. 1/10 ~ h 11,

h. 1/10 ~ h 11.

h. 1/10 ~ h 11

-ucb, -vb-o:

e/c, e/f, —,

-uea-H—;

-ce/f/c,

ea-H/c ~ m.

e/c, g-a/f,

~m-a/f.

a-co. v. v. m. -f/c,

q/b ~ 2b/2o/f/c,

e/c, i/c ~ 2o/c,

f, e! → e/2b/c.

2b ~ m ~ i, m,

gumb-c/o.

jeu:

~ 1/2 n y p z.

alg. lo.

e' 2b° j w z,

c r m e s e p n

- p v n b .

jeu:

v' f' 2 - e,

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

alg. lo.

2b, ~ e r h b,

v b r ~ r n b b z!

e s o, e r b o' b,

congruence / Co;  
lcom - / en,  
~ No. / jed gr.  
d / 9226 L  
nd h' 6' rya  
lbfgr 2 r ten n;  
e on 2 2 rgr!  
2 / 2 c. h' d,  
All c. - fed,  
er r d h' 6' 0,  
e. / 0', s c o r U gr;  
d / 2 / 2 6' h' 6',  
s e n', / 2 2 2 6'!



ger:

edv / jron!  
1 ev, ob - d  
er, con gysc od,  
n f b D<sub>2</sub> h.

alg lo:

edv - h<sub>1</sub>!

ger:

1 B<sub>1</sub> od n v / d<sub>1</sub> h.

alg lo:

1 n - d - o / k<sub>1</sub> n<sub>1</sub>,  
1 c<sub>1</sub>, o - r<sub>1</sub> n<sub>1</sub> g<sub>1</sub>.  
- n<sub>1</sub> ) g<sub>1</sub> - d<sub>1</sub>

o — a r m y l;  
6 z h ( p l ) j p l;  
— m d s — j — d.  
m l l' f; c m l r;  
o s e; e e; — m u b!  
S h, e r j p n;  
S r; — e! — i. h.

z:

z u y s' p j m l.  
— z n; — r u l!  
l b r l, — m h — r f o m.

z f l o.

z o f l, — j m j l o.  
c o r o f m l,

- in der Lage zu sein,  
- das zu tun,  
- sich zu bewegen.  
nicht möglich, es zu tun,  
- es zu tun.  
Nur zu tun!  
es zu tun, es zu tun  
ja, es zu tun.

ja:

es zu tun.

es zu tun.

es zu tun, es zu tun,  
es zu tun,  
es zu tun, es zu tun.

2c5b) h.f.,  
2c5 ~ op.w.,  
~ c5b) h.w.,  
5 c5b) ~ t.u.w.

g:

f, 12 / 52 h.k.,  
~ r20 / 200.  
— 1 v 5 rep  
10 ~ all c5b) on?  
e h. ~ g f,  
— 2! e l. ~ j c.  
c2 ~ b y 1 → 3,  
b) j r c b.

alg. Geo. (1)

1.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

2.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

(4)

1.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

2.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

3.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

4.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

5.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

6.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

7.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

8.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

9.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

10.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

11.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$

12.  $\mathbb{R}^n \times \mathbb{R}^m \rightarrow \mathbb{R}^k$



ger:

es gibt die 2. Ordnung, C-0.

alg. Geo:

h, L, K, C, i, e, u, v,  
- h<sup>2</sup> no z e i n u.

ger:

1. ger  $\rightarrow$  v, h, s, o, ~ h  
ell,  $\rightarrow$  C ~ n, y, u,  
L ~ C, g, s ~ h, j, z, m?

alg. Geo:

co + m, °, m, p, u.





U/S.

U:

ca<sup>o</sup> ~ n<sup>2</sup>?

U/S:

ca - o pl.

rozim, e, 200.

2ch Le, ch y

'e ~ n - ogy!

U:

~ ~ ~ ~ ~

U/S, 200.

- 'v' - o/m;

10 ~ 20, d/y.

u b, p - m;  
i g a n o.

u f l o.

u n l o e' j o m;  
- u e g o f, - u e c b e j m.

l:

o n n r e o' z'  
c o e l e, m l - o n'

u f l o.

r l - ~ w o,  
i o j p, l' m.  
e n d l o n n j  
- ~ n l o r e l.

~ B l s l l, i r u c,

2d 5 use for re.

- 2 r l, - n - j a 25;

1 h r o j ~ l u d e l!

# AUERBACHS KELLER IN LEIPZIG

*P. B. p. m.*

*lg:*

- n h m ? n D!

1 - n p h D!

1 - h 2, a n o f 3,

- W o d m h u s.

*ben:*

e d ~ o; e W d h i x,

1 - e y, ~ o n.

lg: (20 20 ~ 20 20 ~ 20 20)

en 2 2 2!

ben:

e 2 2!

lg:

1 - 1 - 1, 2, 0 - 0!

6:

1 2 2, 1 2 2!

2 2 2 2 2 2 2 2 - 2!

2 2 2 2!

der:

osv, v u u!

usv! \ n f v, u.

de:

ce f d E p d,

l r t n o w h p d.

de:

— n, z o z<sup>2</sup>, k o k n d!

s. k s s e!

der:

s. k s s e!



lg: (62)

gr ds, 4 202,

20 v 2 20 2000.

6:

2 20 20 20! 1 - 20 20 20!

lg:

2 20 20 - 20! 20 20 / 20!

6.

20 20! 2 20 20.

20 20! 2 20 20.

20 20! 2 20 20.



6:

h, o, o → -s- r 6!

→ j r f j d.

o o p r b, o' b d - d.

j d ~ r e r y g!

\ w r r s r r y g r z m;

~ d l, c. s e a n n l,

w r r c r z r l r z m!

~ d n s r b l j - u

• l, o m b j z.

→ s r r b o o,

o r, b d ~ j o

ben: (s ~ d j r e)

o s! o s! p d v!

r z m, f l, c o j d

М — 2 ф 2,  
— 2 20, Д р р р,  
/ 2 2 1 2 0 / 1 5 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 2 2 2 2 2.

2<sub>0</sub>: (gpc)

o / b r r r.

var:

b b → z, b b → z,

- o l o e n l f;

f d', f y', e r y z,

- / r r r r;

b / r r r r r f;

l e l e r r r r;

o / r r r r.

2<sub>0</sub>:

o / r r r r.

ben:

6 r r ~ r d r 2 r r

\sqrt{p} h\_i

6 ~ r e - f / - s

- \sqrt{r} h\_i

e r r, r r r

2! b e l l s r f s,

o r b d r r.

2:

o r b d r r.

6:

o), C h u g l s!

- v - r r d,

~ r r r r / f s!

ben:

6 f c o z e r z d?

ben:

'z d l' r e n c u!

e p r d r p - v e;

\ d z' p u n v

o r y n n w e

lf - d f b o k n s

df bo:

1 2 0 b n e n e n

2 6 p f b n;

o e y b, o n j n b.

2 L r x' t e n n b.



6:

loben, her zu

7:

ord - nicht - zu

p, o - nicht

~ u - p, o - nicht

6 zu v - nicht

6 zu f - nicht

8:

wilf - zu p, o - nicht

9:

f.

lg:

$\approx 11, 1 \text{ zu } 6!$

alg. lo. (y 6)

$\sim \text{L. g. l. e. L. o. h. n. s.}$

$- \text{c. o. l. u. r. n. s.}$

lg:

$\rightarrow \text{e. s. p. b. , 1 \text{ zu } 2!}$

lg:

$\text{f. e. n. j. n. l. o.}$

$\text{s. , alg. lo. s. } \rightarrow \text{osc.}$

$\text{c. o. l. u. r. n. s. } \rightarrow \text{lo.}!$





5. 10, 1 ~ 10 g/h.

~ 1) nly.

res: (✓)

es es! \ ja!

6:

~ 100 A!

ly:

~ 100 ~ 100 g!

1000:

0, 1/10, 2/10

1000 2000

100, 200, 300

for  $C \subset E$ !

$\hookrightarrow$ :

$\rightarrow C \cap M \sim \text{Id}_0?$

$\text{Id}_0$ :

$\rightarrow \sim! \rightarrow \text{Id} \cdot \rho, \rightarrow \sim! \cdot \rho$ .

$\rightarrow$ :

$\text{Id} \sim \rho!$

$\text{Id}_0$ :

$C \cap M, \rho$ .

6:

→ D ~ 2000 g!

2/3 lo:

1 ~ 2000 g für x,

2 ~ 2000 g für y.

o.

1 ~ 2000 g,

1 ~ 2000 g

4:

2 ~ 2000 g für x, y

~ 2000 g für y.

df. 60: (60)

- a ~ r ~ n d

\ 1 ~ 2 0 6 3,

~ 1' 2 / 0 1,

o o o m o o.

e, l, o, z, e,

\ z e n 2:

e, v o<sup>2</sup> / m n e

- v o r 2 o n!

ben:

v b → 1, 2 z e n p h,

e, v o p f v b,

- e, - k o n l p;

1, 2 o n l v a h!

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

201-202

dz, c - pl.

2<sub>o</sub>: (2p)

run - you

dz, c - pl.

4:

ka! ka! ea z!

6:

—° - terles v!

ben:

pl, ben - Wol!

12a:

$-a, b! - a'c!$

12b:

$1, 2, 3 \sim 20, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20$   
 $c \sim c \sim b \sim a$

12c:

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

12d:

$1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20$   
 $a \sim a, b \sim b, c \sim c$   
 $e \sim e \sim c \sim b$



6:

$\rightarrow \mu \approx 1, 2, 5, 10$

7:

$z \sim z_0 z_1 \rightarrow \dots$

$\rightarrow w/n \sim \dots$

$e \sim 1, 2, 3, \dots$

$\sim 1, 2, 3, \dots$

8: (10)

$6^2 \sim 2, 3, 4, \dots$

9: 100

$z \sim \dots$

ben:

co<sup>o</sup>z<sup>2</sup>pp<sup>2</sup>

13 2/1, 10 ~ 12?

res:

eat 3' 0' ~ 1000 cups, fr.

df lo: (20 ~ 100, 1/2)

~ 0', co 0/1 1/2 3/4?

ly:

0 2 1 1 2 1 1 ~ 1000?

df lo:

1 fr - 1/2 ten l.

res:  $(y, \lambda)$

st.  $e, \lambda \in \mathbb{R}^n, \lambda \geq 0$

by:

$\lambda \in \mathbb{R}^n, \lambda \geq 0, \lambda^T c = 0$

$e^T \lambda = 1, \lambda \geq 0$

also:  $(\lambda, \mu) \in \mathbb{R}^n \times \mathbb{R}^n$

$\lambda \geq 0, \mu \geq 0$

$\lambda^T c = 0, \lambda^T e = 1$

res:

$\lambda, \mu \geq 0$

df<sub>loc</sub>: (y|v)

- 1?

var:

1 -  $\gamma$   $\sigma^2$

-  $\sigma^2 \sigma^2$   $\sigma^2$ !

df<sub>loc</sub>  $\sigma^2$ ;  $\sigma^2$   $\sigma^2$   $\sigma^2$   
 $\mu - \sigma^2$ .

var:

$\sigma^2$   $\sigma^2$   $\sigma^2$

$\sigma^2$   $\sigma^2$   $\sigma^2$

$\sigma^2$   $\sigma^2$   $\sigma^2$

$\sigma^2$   $\sigma^2$   $\sigma^2$

6. (n)  $\text{df } \log \sigma (y \sim \mu)$

$\sim 20 \text{ } \mu, \sim \sigma^2 \text{ } \nu \text{ } 1,$

$\nu \text{ } \nu \sim 20 \text{ } \text{df}$

$\text{df } \log: (\text{df})$

$\rightarrow \text{ } \rightarrow \text{ } \text{df}$

$\text{df}$

$\sim, \sim, \sigma \text{ } \nu \text{ } \text{df}$

$\text{df} \sim, \text{df} \rightarrow \text{df}$

$\text{df } \log:$

$\text{df}, \text{df}, \text{df}$

$\text{df} \sim \text{df}$

$\text{df} \rightarrow \text{df}$

$\text{df} \sim \text{df}$

123:

2 ser!  $\rightarrow$  /  $\sim$  H.

Dr, 2 - p - y - 0<sup>2</sup>.

df lo: (20<sup>per</sup> per)

h<sup>H</sup> - c<sup>per</sup>!

2 m<sup>per</sup>;

'c: 0<sup>per</sup>, 2 y, 1, 2, 3,

'2 y<sup>per</sup> D<sup>per</sup> c D<sup>per</sup>.

$\sim$  h<sup>per</sup> 2, 1, 2, 3!

x<sup>per</sup>  $\sim$  c<sup>per</sup>, 2, 1  $\rightarrow$ !

$\sim$  p, p<sup>per</sup> - p<sup>per</sup>!

~~•~~: (n b, P l p - l e i - e n t

c n o z o - l l)

- z u l e i - s b b!

~~•~~ l e o.

→ m s, e r v i s b!

b h e n e z l.

~~•~~: (b n)

s i n g u l a r,

s o l b e r o s!

~~•~~ l e o.

e l i n l, o r n, o c o p n!





6:

co eo? a! r y d - L z!  
- z, e r T / m.

6:

o, T e f f z u w!

6:

1 e l, r 20 ~ 2 y d o a r.

6:

co, 2! (-) f z,  
- x o 2 f o l u?

df lo.

g, -L'co!

o.

log!

g - 12 2 2 um!

ben:

cl - , - 2 2 um!

ren: (g - p l o<sup>2</sup> B,

- g / p l m)

1 h! 1 h!

g b j! ' m: f r!

6 p, 10 - 12 5 df lo.

alg. lo: (2nd type)

lg pe - c

ren o - !

-e x - c!

o f u y d - o z n r.

res:

c v r! c d o z n r!

lg:

c w r! o, n!

o:

-h r! / r!



der:

$\sigma^2$

g:

cre no?

ben: (j b)

-e 2 1 2' 2e!

der:

-a ~ g, r p e 2e!

g ~ f, 1 0 ~ r!

g:

~ , d v ~ , co p?

by:

$c \cdot m^2 c_1 r g$ ,

$\cdot v / \omega r m!$

res:

$r \sim b_{20} / \omega r m$

$r \sim b_{20} \sqrt{\omega m}$

$- \Delta v \sim g \sim b_{20}$ .

$\int D^2 \rho \text{ coc.}$

$m! \cdot c \cdot c \sim b_{20}^2$

h:

$h \sim \omega, \omega - g$ .

by:

vered, ohra.

ben:

uoa-2~h?

ben:

~ov ~, ~° ~ ca ~!





c. v. b. h. v. s. u.  
o. v. c. e. g. i. u. c. b.  
j. i. z. h. v. g. e.  
o. i. n. - o. n. e. r. b.  
/ n. r. e. - u. o. g. l. e. ?

u. f. l. o.

u. l. o. - f. h. e. e. n. t.  
o. j. s. u. - u. i. - u. i. ;  
- - f. i. z. - u. h. u.  
- - u. e. n. t.

u. f.

u. - o. s.

2/3 lo.

2/1 ~ 2, → 2e

- 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

2/1, 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

en un grun/.

df lo.

— w e d, l e.

6:

en e f e f e!

en ~ h / o u l e?

df lo.

ec ~ j u f l u!

1 — l<sup>o</sup> c. l e l u l e:

l n d - o f e,

f e - l<sup>2</sup> c u o.

~ j u r b: l u p l,

1 f — l, l u s o l l.

-oo, coypd,  
-<sup>2</sup>ccur d!  
`Ll)8jpl;  
-`Ll r0/ d.  
i, w d v e.

o, d ~ propl!  
e, vae! e` m!  
j ~ m.

-j, l, b: / j, 2?

i, w:

l, 2, 0,

e<sup>2</sup> 2

j, f, u, 2e!

df lo:

o r l b c j g m?

, n:

— n r s, l n m.

df lo: (y l)

o l b e g, j r m?

l:

— y z l, o i h c o!

df lo:

~ , ~ e o ~ o o r e

· l e , ~ , n l l l!

j ~ m.

—  $d v \partial, M \omega$   
 $c_0 \partial \sqrt{r} z^2 \partial z^2$

*in:*

$r \sqrt{2} \partial \sqrt{4} \omega$

*df  $\omega$ :*

$e r \sqrt{r} \sim 2 \omega \omega$

*in:*  $(\partial \partial) x - z \sqrt{2} \partial \sqrt{4} \omega$

—  $\partial \omega \rightarrow \partial$ ,

—  $\partial \partial \sqrt{r}$ ,

—  $\partial \partial \sqrt{r}$ !

$z \partial \partial \sqrt{r}$ ,

—  $\partial \sqrt{r} \partial \omega$ ,

—  $\partial \sqrt{r} \partial \omega$ .



2. M.,

2. d. d.!

g. b. g.!

6. S.,

- d. g.

2. f. b.

6. o. e. d.!

2. n. (2. d. - d.)

c. d. g. ~ d.

— d. d. d. m.

— d. d. g. - b. b. d.

d. p. e. d.!

— d. d. g. ~ d.

— e. d. d. r. / m.?



df lo: )<sup>2</sup> L<sub>1</sub> ~ 200)

- or L!

nk - yg:

\nk L!

\nk / ~ L,

\nk / ~ 20!

df lo:

plow!

\nk:

~ ce 20,

- of 200!

\nk ~ df lo, of.





1. W: (Ch 5 en een w<sub>2</sub> en p<sub>2</sub>,  
W<sup>2</sup> d<sub>2</sub> b<sub>2</sub> - m 220 f)

— / d — m

220 - 264

1 m / m!

622 d<sub>2</sub> i' m 2 - p<sub>2</sub> b<sub>2</sub> f g<sub>2</sub>, 2 Ch b<sub>2</sub> =  
f<sub>2</sub>.

m - p!

1 m - d<sub>2</sub>,

1 2 m - m m

U: (m ~ p<sub>2</sub>)

o v! c g w d.

df: (s, v, e, r)

~ b v ~ b b' ~ b j z m.

, w:

- c - j z v,

- c - j z v,

- z - j z m!

df: (o, w)

~ b o b v ~ j h m!

h m r j → j c!

df: (z, v, f, g)

~ c v f o w h m,

e - s v f c h z.

no, change to R, P, W, Z, H, - 1 - 20  
be, change to 20, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10  
of.

1, 2, 3:

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.  $l_{2h}$

$\rightarrow 10 \mu!$

$6 \text{ l} / \text{z}^2 \text{ p. l. z} \sim \text{no} - \text{ff} / \text{br} \sim \text{D} \text{ l. } \text{d} \text{ l. } \text{f} \text{ l. } \text{e} \text{ o} - \sim \text{m.}$

1.  $\text{w} \text{ o} \text{ e} \text{ n.}$

$\text{d} \text{ l. } \text{f} \text{ l. } \text{e} \text{ o.}$  ( $\text{ch} \sim \text{ce}, \sim \text{z} \text{ x} \text{ z} \text{ l}, \text{w} \text{ l} - \text{l}, \text{z} \text{ o} - \text{l} \text{ l}$

$\text{z} \text{ l}$ )

$\text{y} \text{ l} \text{ y} \text{ l}$

$\text{e} \text{ s} \text{ l} \text{ l}$

$\text{e} \text{ s} \text{ l} \text{ e} \text{ z} \text{ d}$

$\text{.} \rightarrow \text{p} \text{ o}$

$\text{w}, \text{e}, \text{o}$

$\text{j} \text{ e} \text{ z} \text{ e}$

$\text{n}, \text{d} \text{ l} \text{ } \rightarrow \text{p} \text{ o} \text{ p} \text{ l.}$





2/3/20

192 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2.

192 ~ 1/2 - 1/2,

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2.

2/3 (1/2)

2/3 ~ 1/2 - 1/2;

2/3 ~ 1/2 - 1/2!

df. 60.

$\sim n, c, u, v!$

, B:

$c_2^2 \cos, \rightarrow p^2$

df. 60.

$\cdot j \sim n \text{ (all) } p_i;$

$\sim n, p^2, \omega, h,$

$\sim \cos^2 b, \cos, \cos^2 p_i.$

$e, \text{ and } \sqrt{2} \text{ } u, \text{ — } \cdot, \delta \text{ } \eta_i;$

$v \sim n, c, e, n.$

$e, f \text{ (all) } \sim n, e, u, p_i;$

$\delta, e, e, c, e, v!$

$\cdot u \text{ — } \cos^2 p_i.$





1. 2, 20<sup>th</sup> per, f ~ no - f/cen 2; 2<sup>o</sup>  
lu, 20 ~ j/ru, 1, 20 j/ru, - 20. j/W 6  
~ 200, f, 20 j/ru, 1, 1 j/ru - 1, lu  
20 20. 6 out/6, j/ru.

6: (j/ru 6)

~ 20, 20, 20<sup>o</sup> e 6?

e 20 j/ru, 1, 20 per,

~ 20 j/ru,

~ 20 out, 20 j/ru.

6: 6.

~ 20! e ~ j/ru,

~ 20 ~ j/ru!

6 20 j/ru ~ 20 j/ru,

20! e ~ j/ru.

$\sim \sqrt{h}, z \sim \sqrt{h}$

$\cdot \mathcal{L}: (220 \text{ als } \mathcal{L}, \text{ } \omega^2 \mathcal{L} / \text{erster})$

$g \text{ } \mathcal{L}!$

$\omega \sim \mathcal{L} \mathcal{L},$

$- \mathcal{L} \text{ } \mathcal{L} \mathcal{L},$

$- \mathcal{L} \mathcal{L} \mathcal{L},$

$- \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L}.$

$\mathcal{L}, \mathcal{L}!$

$\omega \mathcal{L} \mathcal{L} - \mathcal{L} \mathcal{L},$

$- \mathcal{L}, \mathcal{L},$

$\mathcal{L} \mathcal{L} \mathcal{L} - \mathcal{L},$

$- \mathcal{L} \mathcal{L} \mathcal{L}.$

$- \mathcal{L} \mathcal{L},$

$- \mathcal{L} \mathcal{L} \mathcal{L}.$

$e \cdot e \mathcal{L} = \mathcal{L} \mathcal{L}!$

6:

Don't, ...

also:

... ..

... ..

... ..

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... ..

... ..

... ..

... ..







1.  $\beta \sim \omega$ .  $\beta \sim \omega$ .

$\sim \beta \sim \omega$ .

1.  $\beta$ :

$\sim \beta \sim \omega$ .

1.  $\beta$ : ( $\beta \sim \omega$ )

$\sim \beta \sim \omega$ .

$\sim \beta \sim \omega$ .

1.  $\beta$ :

$\sim \beta \sim \omega$ .

$\sim \beta \sim \omega$ .



g b, 2 q r h r u,  
w e z z t e r c u.

# STRASSE

cf. *was* *was*.

cf:

*was* *was*, *was*, *was*,

*was* *was* *was*?

*was*:

*was* *was*, *was*,

*was* *was* *was*.

*was* *was*.

cf:

*was*, *was* *was*!

*was* *was* *was*.

6: - 6: - 4re ✓,  
- 100 p(0) p(0).  
- 100 p(0) p(0),  
in d no 10!  
06, 20 p(0),  
06) 20 p(0);  
06 p(0) p(0),  
ein p(0) p(0)!

100 p(0) p(0).

6:

2, 4, 6, 8, 10 p(0)!

df lo.

~ CD?

6:

6 r 4 u.

df lo.

er: 6 r 5 r 6 u,

1 p 6 r 6 u

1 p 2 r 2 f u,

i ~ 2 p 6 u,

e r 6 / 6 r,

8, 2, 1 r p!

Q:

• 4. 5. 6. 7. 8. 9.

alg. 10.

11. 12. 13. 14. 15.

16. 17. 18. 19. 20.

21. 22. 23. 24. 25.

26. 27. 28. 29. 30.

31. 32. 33.

Q:

34. 35. 36. 37.

38. 39. 40. 41. 42.

43. 44. 45. 46. 47.

48. 49. 50.

51. 52. 53. 54. 55.



—<sup>2</sup> r<sub>2</sub> 2nd pfr.

df<sub>2</sub>:

ent, com-ge v!

1/2 cut by n,

→, p<sub>2</sub> affr.

6:

→, → for ge v,

U ~ L / y

— ~ p<sub>2</sub> j<sub>2</sub> b.

df<sub>2</sub>:

r<sub>2</sub> j<sub>2</sub> b<sub>2</sub> ~ h<sub>2</sub> o;

∂ v<sub>2</sub>, b<sub>2</sub> / v<sub>2</sub>:

co<sub>2</sub> l<sub>2</sub>, → v<sub>2</sub> / r<sub>2</sub> o?

1.  $\text{Le} \sim 1 - 20,$

2.  $\text{C} \sim 1/25, 2,$

3.  $\text{P} \sim 1/100,$

4.  $\text{e} \sim 1/1000 - 1/10000$

5.  $\text{c} \sim 1/1000 \text{ of } \text{p}^{\text{e}}.$

6:

1.  $\text{K} \sim 1/10 \rightarrow \text{e}.$

2.  $\text{f} \sim 1/100.$

3.  $\text{H} \sim 1/1000 \rightarrow \text{p}^{\text{e}}.$

4.  $\text{I} \sim 1/100, 1/2^2 \text{ of } \text{p}^{\text{e}}$

5.  $\text{N} \sim 1/1000 \text{ of } \text{p}^{\text{e}}.$

6.  $\text{O} \sim 1/1000 \text{ of } \text{p}^{\text{e}}.$

7.  $\text{R} \sim 1/1000 \text{ of } \text{p}^{\text{e}}.$

6:

gl v ko S ragg!

br p m s G!

gl v ~ 2.00 S m G,

~ fgr v r ko!

alg lo:

el r o, e, r ~ G

- l en - od o'

~ r m n w m,

- r r r r r f r l r.

6:

- ° 6 2 2 ? 6 2 ?

alg. Co.

~!

6'  $\sqrt{\text{Duro}}$ .

$\frac{1}{2}$   $\sqrt{\text{Wen}}$

$\sqrt{\text{Wen}}$   $\sqrt{\text{Wen}}$

$\sqrt{\text{Wen}}$   $\sqrt{\text{Wen}}$   $\sqrt{\text{Wen}}$ .

U:

~ 12!

alg. Co.

- 2/3.

U:

$\sqrt{\text{Wen}}$   $\sqrt{\text{Wen}}$   $\sqrt{\text{Wen}}$ !

u.

2/2/60.

2/2/60. 1/1/60. 1/1/60.

1/1/60. 1/1/60.

- 1/1/60. 1/1/60.

1/1/60. 1/1/60.

1.

ABEND

~ ~ ~ ~ ~

www: (rjl lbc - avcc)

122 c0 b1 c1 → d,

c2 → x for!

\ o p o l c u o

- : o r l e 2 i

e r t r l e ~ g m s o m

\ c d o o d / - m p o r

u.

rlf ho. lf.

2/3 lo.

2, 2y, 2, 2!

2/3: (2) m g y w

1, 2, 2, 2!

2/3 lo. (2) g v c

1, 2, 2, 2!

1.

2/3: (2) g v c

1, 2, 2, 2!

1, 2, 2, 2!

1, 2, 2, 2!

1, 2, 2, 2!

1, 2, 2, 2!

1.  $xy, yz!$

2.  $xy, yz!$

2.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$

1.  $xy, yz!$



— 1. 2. — 2. 3.!

1. 2. 3. — 2. 3.

— 2.!

1. 2. — 2. 3.

colb. 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.

noch  $l_1, m, p, r$ .

$v_1, v_2 \sim \mu, \sigma$

$v_3, \dots, v_n \sim \mu, \sigma$ ,

$- b, v_1, \dots, v_n$

$v_1 \sim \mu, \sigma$

$- v_1 \sim \mu, \sigma$

$v_1, \dots, v_n$

$v_1, v_2, \dots, v_n$

$v_1, v_2, \dots, v_n$

$v_1, v_2, \dots, v_n$

$v_1, v_2, \dots, v_n$



2/3/20

W/1/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

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2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2

2/1/2 ~ 2/2/2





1. 0 1 2 3 4  
1. 1 2 3  
1. 2 3 4  
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

1. 0 1 2 3 4  
1. 1 2 3  
1. 2 3 4  
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

1. 0 1 2 3 4  
1. 1 2 3  
1. 2 3 4  
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

1. 0 1 2 3 4  
1. 1 2 3  
1. 2 3 4  
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

andezunb x 2i  
120 dny p ~ f.  
- d'ceci! conc n o!  
f U b h e s ~ l e,  
- 2 2 p e s.  
e n ~ 20<sup>h</sup> n v e  
1 e n c, 1 0 - s!  
c o' d' 2 1 p 2! 2,  
- c o 1 2 n / p 2!  
~ 2! 2<sup>2</sup> / e b  
n 2 b l u n n.  
o' v, n p!  
c n, n / p n<sup>2</sup>  
o (y) d s - n ~ p.  
c t, ~ n 2 c n!  
n o' d' 2 / n y p e.



could you, help?

e.c. 2020-21,

in the book;

in the book.

Dear,

Dear

Dear!

# SPAZIERGANG

U<sub>2</sub> p m s - r w c.  
j p d f l o.

u f l o.

v e n z h u! v r z e p u t!  
1 - 1, 1 b c o m m, e p o l z u!

U:

c o r? c o m u p e n - o?  
- m p o, r z u!

u f l o.

1 r v p r r l e s u,  
c 1 - b m l e c!

6:

2) or co p n l g u?  
p n e o ~ s e j u!

2) 6:

ent ~, ~ z, l W n p l,

~ o ~ l l z o p l!

1, 2, n d e o j z

2) l w i z n ~ j z

1, 5, 2, n ~ l n p,

z l n p p u

- l o r t e r z e n,

r e o r z e p i e l h i;

- ~ z e s p l, o n n,

e a l b o n a.

» n r e a, l b, » p l o z

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

10, 10, 10, 10, 10

~ 1604 1/2

6:

e: ~ 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

U:

-W<sub>2</sub>

alg. Geo.

St.  $\mathbb{P}^n$

$\mathbb{C}P^n, \mathbb{C}P^1 = \mathbb{P}^1$

entworfene -  $\mathbb{P}^1$

$\mathbb{P}^1 \cong \mathbb{P}^1$

U:

$\mathbb{P}^1 \cong \mathbb{P}^1$

$\mathbb{P}^1 \cong \mathbb{P}^1$

$\mathbb{P}^1 \cong \mathbb{P}^1$

alg. Geo.

—  $L^2$  miso  $\sqrt{xy}$ !

Q:

—  $D_1 - \sqrt{6} D_2 D_3$ ,

$x D_1 \sim D_2$ !

—  $L, D \rightarrow / \alpha L$ ,

—  $z \sim \sim z \alpha$ !

alg. Geo.

$L, \text{non } \alpha, \text{Sep } m.$

Q.

2/3 Leo.

— ~ ~ ~ ~ ~

Don't, re-egm

of the 2<sup>nd</sup> ph. 2, 1, 1.

1.





WWT:

Grwp!

WWT:

WWT, co<sup>2</sup>?

WWT:

WWT, v, m, r!  
WWT, — ~ r b E  
WWT, S, WWT,  
- WWT, WWT - WWT,  
WWT, S, E, WWT.

WWT:

WWT, v, WWT,  
WWT, S, WWT, WWT.

WNL:

Dosb —! Djsb —!

WNL: (y65)

—, e, no<sup>2</sup> —!

WNL:

el v, e, /s' ro  
Zi n t r o s o.

WNL:

re — l/v x,

— n ~ z z z ~;

ff ~ gch ~<sup>2</sup> g r o —,

r z i l e h;

— e n ~ n o, n ~ b,



df Leo 115.

df Leo:

v - l, le 2 ph,

20 l ~ h y 2 m.

h m l ~ w m x.

→ Df was got h!

wp:

1 v; co 2' 2 / on?

df Leo: (o / 1)

1 m b h, v e p i

6 2 e m ~ m 6.

f i l, i r m,

→ Dm Er.

wp: (A)

$\ln, \sqrt{e}, 2 \rightarrow 2 \cdot C!$

$\sim 2 \cdot \ln \sim \ln 2!$

wp:

$1 \cdot \ln \sim \ln 0 \cdot \ln 0!$

$2 \cdot \ln \sim 2 \cdot \ln 2!$

$z - \beta e^{z/2}$

df:  $\ln$

$D, \cdot / \cdot z \rightarrow i$

$6 \cdot \ln \sim \ln, \sim \ln - \ln!$

$\ln, \ln, e, \ln \rightarrow \ln.$



df Co:

— 2√, Lr p!

WWT:

1 r r r' n' n,

8 r p r b / r e n.

df Co:

Lero e, ero Le 2.

WWT:

f / v o r o z o!

df Co:

1 A = C e s s n

1 r 2 n 1 to



~ ^ c y c f z  
f d r ~ 2 u.

WP:

2 r o d i ~ v j l m ?

df lo:

h, - u, 20 - g:  
o b d h l r e s e l w o m !  
R s h ~ 2 q u .

WP:

co. l ~ j f f ? ~ p f e l  
co. l e r r e c o n d ~ g R h e o o r o g f,  
j y e m a c t,  
- h 2 w, h u !

df. 60:

200, - 40 200, 1;

— 100 200 200 / 100.

100, 200 100;

100, - 100 100 200.

200:

Die 100 — 100?

100, 100 — 100 100 200.

df. 60:

100 100, 200 100 / 100:

100 — 100 100 100.





2/3/20:

»... 0 2 1! 6 2 2 7 0 7.«

2/3/20:

e 1! 6 2 2 7 0 7!

2/3/20:

\ 6 2 2 7 0 7!

c 1 → 2 2 ~ m v:

»1 6«, 2 2, »1 6 2 2 7 0 7!»

1 6 2 2 - e 1 6 2 2 7 0 7!

- 1 6 2 2 7 0 7!

- 1 6 2 2 7 0 7! «



WP:

1. 01, 1. 01, 1. 01, 1. 01

WP:

1. 01, 1. 01, 1. 01, 1. 01

1. 01, 1. 01, 1. 01, 1. 01

1. 01, 1. 01, 1. 01, 1. 01

1. 01, 1. 01, 1. 01, 1. 01

1. 01, 1. 01, 1. 01, 1. 01

WP:

1. 01, 1. 01, 1. 01, 1. 01

1. 01, 1. 01, 1. 01, 1. 01

1. 01, 1. 01, 1. 01, 1. 01

alg. lo.

hohl: ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

wp:

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~





WMT:

com' x 02

alg. lo. (l')

ly 24, 200 10!

1

10, 10!

WMT:

10!

WMT:

10, 10!

10, 10 ~ 10, 2,

10, 10 - 10, 10 - 10.

10, 10 - 10, 10,





# STRASSE

cf. rlf Leo.

cf:

cf.  $\rightarrow$  Leo?  $\rightarrow$  Leo?

rlf Leo.

rlf! Leo, rlf Leo?

rlf Leo. Leo

rlf Leo. Leo

rlf Leo

rlf Leo

Q:

—  $\mathbb{N}$

alg. Geo.

el' D'ca I I W.

Q:

~ ed. c. o. h. d.

alg. Geo.

r. m.  $\rightarrow$  ~  $\mathbb{P}^1 \times \mathbb{P}^1$ ,

e r. o. r. m. ~  $\mathbb{P}^1 \times \mathbb{P}^1$

$\cong \mathbb{C}P^1 \times \mathbb{C}P^1$  ~  $\mathbb{P}^1 \times \mathbb{P}^1$  ~

Q:

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ !

alg. Co.

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ !

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ .

Q:

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ .

alg. Co.

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ !

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ ,

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ !

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ !

$\sigma \rightarrow \sigma^2$ ,  $\sigma \rightarrow \sigma^2$ !

elb / 220 / 11 pr?

220 gr, m 4?

— / 1 / 20 / 12 / 20,

2 / 1 / 20 / 12 / 20,

2 / 1 / 20 / 12 / 20!

4:

2 / 1 / 20 / 12 / 20.

2 / 1 / 20:

2 / 1 / 20 / 12 / 20.

2 / 1 / 20 / 12 / 20,

2 / 1 / 20 / 12 / 20

— / 1 / 20 / 12 / 20?



6:

- für 2 p.

2/3 Leo:

2-2-2

er 1/2 m L<sub>1</sub>-1,

1-2 p 2/3 m K<sub>m</sub>

1/2 m - 2 p 2/3

6:

2/3 m 1/2 m C<sub>1</sub> 2/3,

2/3, 2/3

2/3 m 2, 2/3,

2/3 m 2/3 m 2/3,

2/3 m 2/3 m 2/3,

- 2/3, 2/3,

$\rho, \sigma, \sigma \sim,$   
 $\cdot e \sim \llbracket \rho \sigma \rrbracket?$

$\rho \sigma \rho:$

$\rho \sigma \rho!$

$\rho:$

$\rho \sigma \rho \sigma \rho \sigma$

$\rho \sigma \rho, - \rho \sigma \rho \sigma \rho \sigma:$

$\rho \sigma \rho \sigma \rho \sigma \rho \sigma \rho \sigma$

$\rho \sigma \rho.$

$\rho \sigma, \rho \sigma \rho \sigma \rho \sigma,$

$\rho \sigma \rho, \rho \sigma \rho \sigma.$

# GARTEN

wms ~ l<sup>o</sup> r,  
wms rlf b<sub>o</sub>s - r p<sub>o</sub>r.

wms:

1 b - c, e d - x - z l,

2) b, v, y r.

~ w s - p l,

o r l y r,

1 c o, r, e l h i n r

r r p l h t r.

l<sup>o</sup>:

~ w s o, ~ c l r h l

o - c o r d.

~ b r x.

WMT:

m r o t / ! o ~ r b ~ r o ?

b ~ r ; ~ r !

c o r , / g ~ o g h r o ?

r n ~ r / r s

r n ~ r s

WPD:

- r , r r , r b ~ r r ?

rlf lo.

D, e p r - O l r e y t w !

r b z y b r w r h ~

-alder ~ r/w!

WP:

~ p h r c ~

- r - r l r, d j f h;

d n d, u o f z,

- j o n f g - j k j z h;

e o j n r c p.

df h o:

r h o o r e s c.

WP:

r, c t z, u n j z f.

r h s.

WML:

$h, e \sim n, e^2 b!$

$1, 2 b \cdot \gamma, \theta_i$

$\sim 1, 2 b e 2 \theta_i$

$b^2 \gamma \theta_i, o, v.$

U:

$\frac{1}{2} b! n, \text{con} \rightarrow \gamma \theta n,$   
 $\cdot \theta n \rightarrow \gamma \theta.$

WML:

o!

U:

$D, e, \sim b, e, \gamma e n$

$\gamma b - n 2 \gamma n \alpha n!$

every  $\alpha$ ,  $\beta$   $\in \mathbb{R}$

$\sqrt{\alpha^2 + \beta^2} = \sqrt{\alpha^2 + \beta^2}$

WWT:

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

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

Q:

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

WWT:

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

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

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

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

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

— r — d!

1 e b 4 — o ) — p m 3;

r — s c / s i s e i m:

r — h 2<sup>o</sup> — d g r n,

— 2 d — r — h — i g d.

d 3, 4 — p g n:

r — l i o — e l,

r — g o<sup>h</sup> . v.

r — l 2<sup>2</sup> r c r — k — n;

d s r, m 2 — e — G,

— k a v e r c.

6:

— r, c e r d.





www:

elppoweltzgei  
omndgejll  
~vui; - alln) m,  
a, d;  
weh boh, we - v m  
we, e/g, f u g  
- h p e i m s - r d,  
- b a n g r e p t i g i  
e s i w l - i r e o m,  
- m l o z - z m  
e r a, z m, / m u j;  
e z / e e o, z l, v.

m s.

WP:

$1. \text{ in } c \text{ u}^2 \text{ d} \text{ k} \text{ h}:$

$\sim \text{af} \cdot \text{g} \cdot \text{u} \cdot \text{u} \cdot \text{u}$

af lo:

$1. \text{ in } c \text{ u}^2 \text{ d} \text{ k} \text{ h}:$

$\sim \text{af} \cdot \text{g} \cdot \text{u} \cdot \text{u} \cdot \text{u}$

WP:

$1. \text{ in } c \text{ u}^2 \text{ d} \text{ k} \text{ h}:$

$\sim \text{af} \cdot \text{g} \cdot \text{u} \cdot \text{u} \cdot \text{u}$

af lo:

$1. \text{ in } c \text{ u}^2 \text{ d} \text{ k} \text{ h}:$

$\sim \text{af} \cdot \text{g} \cdot \text{u} \cdot \text{u} \cdot \text{u}$

WD:

12: 1 1 2 2 2 2 2 2 2 2

df lo:

2 2 2 2 2 2 2 2 2 2

WD:

1 1 2 2 2 2 2 2 2 2

df lo:

2 2 2 2 2 2 2 2 2 2

WD:

1 1 2 2 2 2 2 2 2 2

2/3 Leo.

e4v2y. e!

o1pmerom e.

22. s.

6:

e m' p, - m n, E,

o12 ~ w n!

wnt:

o1 - 1, 1, 2, 7.

6:

- e y b, l, 1, 1 n!

co), B, l, n,

sehd<sup>2</sup>er m?

Wnt:

1. clyf, v c e ~ p i;

- t v e s v k o s n.

D, d l, 2, 2 e r d n

co l l o, r y o o p i?

- g r z ~ r p e n,

2 r o n l e a j r e n.

p b d l, c b l, c o j

1 - r ~ r x j m z d n t;

- p o, 1 c b l o s d,

e i s ~ l o a n t.

U:

$\sigma \mu \eta!$

wmt:

$b \sim r!$

$\sigma \mu \eta \rightarrow \text{guter - } \mu, \text{ } \eta, \text{ } \sim \mu^2 \text{ h.}$

U:

$\sigma^{\circ} \mu \eta \rightarrow \mu \eta!$

wmt:

$\sim, \circ \rightarrow \sim \mu.$

U:

$\sigma!$

www:

v! r N v p.

6 0 - v - r!

6:

co v - r d e?

www: (2 d e)

\ N v p m N v p /.

6:

e 2 e o r e p b!

www: (L/P)

N v p m / m N v p m / m

e. j. 4 1 o r b e 2 2 e r k e.



\ N D!

Q:

h, z r e! o q w c d

e r z n p o. \ N D!

y b e, c o o d? \ N D!

\ b r c e r e.

w m:

v p s o!

Q:

— z e ! o q w,

o r r e r e o n

c o e f f 2:

) z m n y — c v

$\gamma \beta, \alpha \sim \omega!$   
 $\alpha! \sim \gamma \beta \gamma \beta \gamma \beta \gamma \beta$   
 $\sim, \sim \alpha! \sim \alpha!$

$\omega \alpha \alpha \beta, \alpha \beta, \beta \gamma) \rightarrow \omega \alpha \beta$   
 $\gamma \beta \sim \omega \alpha \beta \gamma, \alpha \beta \gamma \beta$

$\omega \beta:$  ( $\sim \alpha \beta$ )  
 $\gamma \beta \gamma \beta$

$\alpha \beta \gamma:$   
 $\beta \gamma \beta \gamma \beta$

$\omega \beta:$   
 $\gamma \beta \gamma \beta \gamma \beta \gamma \beta$   
 $\sim \gamma \beta \gamma \beta \gamma \beta$



# EIN GARTENHÄUSCHEN

wmt  $\int (2, \int) \Delta, \nu,$   
 $\Delta, \nu, \int \sim, \int - \Delta, \nu, \int.$

wmt:

\ ~ \!

U: ( ~ \)

D, \nu, - ~ \!

U, \!

\ ~ \!

wmt: ( ~ \ - ~ \nu, \nu)

\ \nu! \nu, \nu, \!

df Leo n l n.

df: (jpe)

c e s

df Leo:

n l c!

df:

~ n!

df Leo:

· c j j p n.

WP: (nd)

$t_1, i, j, z, x.$

Q:

$e, i, j, z, x?$

WP:

$i, z, x, j, z, x!$

Q:

$z, i, z, x?$

$x!$

WP:

$e!$

WWT:

5. Let  $E \sim!$

$\mathbb{C} - \text{df } \text{Co. r.}$

WWT:

$g \text{ M } \mathbb{Z}! \text{ Co } \sim \mathbb{Z}$

$1_{\text{Co}}, \text{ so } \text{Co } \mathbb{Z}!$

$g \text{ d } \rightarrow p_1 \sim p_2$

$- \text{or } \text{in } \mathbb{Z} \text{ h.}$

$v \text{ d } \sim \mathbb{Z} \beta \mathbb{Z} \mathbb{C},$

$\mathbb{Z} \mathbb{C}, \text{ Co } \sim v \text{ d.}$

$\mathbb{Z}$









U:

$\gamma \rightarrow \gamma, \gamma \rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma$

U:

$\gamma \rightarrow \gamma, \gamma \rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma, \gamma \rightarrow \gamma$

U:

$\gamma \rightarrow \gamma, \gamma \rightarrow \gamma$   
 $\rightarrow \gamma, \gamma \rightarrow \gamma$

2/5/60.

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

6:

$y^b e, \text{col} \sim \text{row}$

$v \text{ or } \text{or } z \text{ - e } \text{pl?}$

$L, \text{so } e \text{ - } \sim \sim \sim$

$e \text{ col } \sim \text{col } i, \text{ } \sim \text{ or } v / 2 \sim$

2/3/6:

$\sim \text{so } \text{or } \sim$

$\sim \text{or } - 45 \sim \text{or } \text{or}$

$- \text{or } - \text{or } \text{or } \text{or}$

$\text{or } \text{or } \text{or } \text{or}$

$\text{or } \text{or } \text{or } \text{or}$

$\text{or } \text{or } \text{or } \text{or}$

$\text{or } \text{or } \text{or } \text{or}$

$\text{or } \text{or } \text{or } \text{or}$

$\text{or } \text{or } \text{or}$



-, c d - n, q d

z l y - a n d - 2.

m o l e n d e f e n,

- e o ' r n - k.

g n d r n / e ' b,

b o p s d d t.

t n e s o c y b o,

s d f j n z ~ d e y t;

g o b r n o z y p o,

n i e d e o l.

v o u t, y f z c e n / k n,

p ' z z o n n z,

e n h e h e y

b o k j e n.

, f ' r n n n;

b f n b d, o, c o n p

81.  $\int \frac{1}{x^2} dx$

»  $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$

$\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$

$\int \frac{1}{x^6} dx = -\frac{1}{5x^5} + C$

$\int \frac{1}{x^n} dx = -\frac{1}{(n-1)x^{n-1}} + C$

9:

$\int \frac{1}{x^2} dx = -\frac{1}{x} + C$

$\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$

$\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$



Q:

$\omega_1, \omega_2, \omega_3, \omega_4,$   
 $-\omega_1 / e_2 \sim \omega_1!$   
 $\omega_1, \omega_2, \omega_3, \omega_4$   
 $1/E, \omega_1, \omega_2, \omega_3, \omega_4!$

alg. Geo.

$\omega_1^0 - \omega_1^2 \omega_2 \omega_3, e_2 \rightarrow \omega_1,$   
 $-\omega_1 - \omega_2 \omega_3 \omega_4 - \omega_1.$

Q:

$\omega_1 \omega_2 \omega_3 - \omega_1 \omega_2 \omega_3,$   
 $\omega_1 \omega_2 \omega_3 \omega_4, \omega_1 \omega_2$   
 $\omega_1, \omega_2, \omega_3 \sim \omega_1 \omega_2 \omega_3,$   
 $\omega_1 \omega_2 \omega_3 \omega_4.$

2/3 Leo:

2c, 2b, 1c, 1b, 1a  
2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

6:

2b, 2c!

2/3 Leo:

2a, 1b, 1c, 1d, 1e, 1f, 1g, 1h, 1i, 1j, 1k, 1l, 1m, 1n, 1o, 1p, 1q, 1r, 1s, 1t, 1u, 1v, 1w, 1x, 1y, 1z.

2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i, 2j, 2k, 2l, 2m, 2n, 2o, 2p, 2q, 2r, 2s, 2t, 2u, 2v, 2w, 2x, 2y, 2z.

6:

co:  $\text{red}_e = m \text{ red}$ ?

o  $\text{red} \sim \text{red}$ !

$\text{red}_1 / m \sim \text{red}$ ?

$\text{red}_1 \sim \text{red} / \text{red}$ ?

$\text{red} \rightarrow \text{red}^-$ ,

$\text{red} \sim \text{red} / \text{red} / \text{red}$ ,

$\text{red} \text{ red} \text{ red}$ ?

$\text{red} \text{ red} \text{ red}$ ,

$\text{red} \text{ red} \text{ red}$ ,

$\text{red} \text{ red}$

$\text{red} \text{ red}$ .

$\text{red} \text{ red}$ ,

$\text{red}$ ,

$\text{red}$

$\text{red}$ !

6, m l e r p, s h u!  
e, 2 u, v o o h a.  
d l, l e, v, f i n d u p.  
c o r o p u, v a z p u!  
v r p s v p p p  
- b i v p e m!

u l f l o.

c o e d l, e z!  
v ~ - l e b, e, l!  
c ~ ~ r l h m e n d,  
f l. ) z p e r e ~.  
- u, a ) l e z!  
e, b e d o d - p u p l l.  
i u z l b e, s i d  
o ~ l e i g l l.



# GRETCHENS STUBE

Wh: (n girl, en)

v ↘ 2,

z z y z i

1 be b r u

- r u.

c r / z,

• v e h,

1 n y d

• v r l.

z r u r l

• v r l,

z r u r l

•  $v \cdot \text{grad}$ .

$v \rightarrow \cdot 2,$

$v \rightarrow 2y \cdot z,$

$\rightarrow \text{vec } b \cdot \text{vec}$

$- \text{vec}.$

$\text{vec} \rightarrow z_1$

$\text{vec} \rightarrow 2z,$

$\text{vec} \rightarrow v_1$

$e^2 z_0$

$\circ \rightarrow 2z \cdot v_1$

$\circ \rightarrow e \cdot \text{vec},$

$\circ \rightarrow \text{vec } b \cdot \text{vec},$

$\circ \rightarrow v_1 \cdot \text{vec},$

-  $\sigma \wedge e$

$\mu \cdot b_0$

$\sigma \cdot x \cdot e_2$

-  $D! \sigma \cdot n_0!$

$z \rightarrow \cdot 2,$

$z \rightarrow 2y \cdot z,$

$1 \cdot b \cdot b \cdot z$

-  $z \cdot z.$

$z \cdot b \cdot z$

$J \cdot D \cdot z,$

$D \cdot z \cdot b_0$

-  $2 \cdot z \cdot z,$



$-\sqrt{\sigma} \tilde{r}_i$   
 $\frac{\sigma_1}{\sigma_1} \frac{\sigma_1}{\sigma_1}$ ,  
 $\sim \sigma \sqrt{\sigma}$   
 $m^d!$





6:

1 ~ b.

www:

o ~ u.

120, 120, 120 ~ 120.

2/3 ~ 2/3?

6:

2 1/2, 2 1/2:

1 1/2 ~ 2 1/2?

2 1/2 ~ 2 1/2,

- 1 1/2 ~ 2 1/2

3 ~ 1 1/2.

www:

— 2/4/1?

6:

2/1, 4/2, 6/3!

center?

— center:

» 2/1/1?

center,

— 2/1/1

John: » 2/1/1?

2/1/1,

2/1/1,

2/1/1

2/1/1, 2/1/1

center? 2/1/1/1?

$\sigma, \tau / \alpha \sim \ell^2$ ?

-  $\sigma \sim \ell^2$  oder

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

-  $\sigma \sim \ell^2$

$\sigma \sim \ell^2$ ?

-  $\sigma \sim \ell^2$

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

-  $\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

$\sigma \sim \ell^2$ ?

WNL:

$e_{i0} \sqrt{g_{i0}} - \eta_i$   
 $g_{i0} \delta^i \ln D,$   
 $\rightarrow \text{Bret.}$

U:

$- \sigma_0 \sqrt{\quad}$   
 $- 2 \mu \sqrt{2} \sigma \mu_i$   
 $\sigma_0 \sqrt{\mu_i}$   
 $c_{i1/2} \sqrt{\quad}$

WNL:

$c_{20} - 2 \sqrt{2} \sigma \mu_i$   
 $g_{i0} \delta^i \mu_i$   
 $e_{i0} \sqrt{\quad}$

Q:

to  $\sim \mathbb{C}!$

WWT:

$-4v \sim \gamma \sigma_3$

$e_1 \rho_2 \sim \rho / \sigma_3$

Q:

$\sigma \rightarrow ?$

WWT:

$\sim \gamma \rho_2 \sim \gamma e_1 \sigma_3$

$\cdot v \sim \rho_2 \rho_1 \sigma_3$

$-2v \sim \rho_2 \rho_1$

$-1 \sim \rho_2 \rho_1 \sigma_3$

$\sigma \sim \rho_2 \rho_1 \sigma_3$



Q:

$\mu \in \mathbb{C}, \mu \sim 1!$

WWT:

$\sigma \text{ mod } \text{ord } v \in \mathbb{Z}_p$

$1 \text{ or } \sigma \text{ on } \mathbb{Z}_p \text{ is}$

$\mu \sigma, \nu \sigma, \rho, \sigma, \mu$

$2 \text{ or } \sigma^2 \text{ on } \mathbb{Z}_p \text{ is}$

$-2 \text{ or } \sigma \text{ on } \mathbb{Z}_p \text{ is}$

$2 \text{ or } \sigma \text{ on } \mathbb{Z}_p \text{ is}$

Q:

$-2 \text{ or } \sigma \text{ on } \mathbb{Z}_p \text{ is}$

www:

— 1/2 o o 2 u!

nd. ~ o / r 2,

o. n — g d e

— 2 u d;

2 o, e ~ i n ~ d ~ d;

— g r ~ i g r p p;

e. / n — o. d.

v<sup>d</sup> — c z e r n,

— l, — 2 n c n,

— o n d p d v e r i j.

6:

g ~ o ~ n ~ e!

www:

exw/v - o;

e, c, - n/j/h,

z, - n, - k/p/v.

D, c, ei; - i/n/u,

- e/b/v no z/y/z;

o; z/v, w - D - o.

U:

g, z, n, h!

www:

120 ml.

6:

$D_{12}$

$\sim \text{gch} \text{ } \sigma \text{ } \omega \text{ } \omega$

$- \text{gch} \text{ } \omega \text{ } \omega \text{ } \omega$ ?

WMT:

$D_{C_1} \rightarrow \text{gch!}$

$\rightarrow \text{pov} \text{ } \omega \text{ } \omega \text{ } \omega \text{ } \omega$ ;

$\partial \text{ } \omega \text{ } \omega \text{ } \omega \text{ } \omega$ ,

$- \text{ } \omega \text{ } \omega \text{ } \omega \text{ } \omega$ ,

$\rightarrow \text{ } \omega \text{ } \omega \text{ } \omega \text{ } \omega$ !

6:

$\text{gch}, \text{ } \omega \text{ } \omega \text{ } \omega$ .

$\omega \text{ } \sim \text{gch!}$

$\text{ } \omega \text{ } \omega \text{ } \omega \text{ } \omega$

2. 12/1/1, 1/1.

WMT:

coy, 1/2, 1/1?

1/2, 1/1, 1/1?

6:

8, 1, 0, 1, 1, 1, 1, 1

WMT:

o, 1, 1, 1, 1, 1, 1, 1

co, 1, 1, 1, 1, 1, 1, 1

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

ev, 1, 1, 1, 1, 1, 1, 1

1.

alg Leo 115.

alg Leo:

\ bal! \ cr?

U:

o E p u?

alg Leo:

120 - ab c u u,

21 e s e n d o ;

21, - o m c u u.

120<sup>2</sup> d o m b ,

r - l e - g l e n d - l e u.

6 e n : e l - e s , l e d - s u d .

6:

$g_{22} \sim b^2$

$0 < L \ll \lambda$

$\int M_{22}$

$\sim \lambda$

$\sim \lambda^2 \rho c; \int \lambda^2 \rho c$

$e b \sim \lambda^2 \rho c \sim \lambda^2 \rho c$

2/3 Leo:

$g_{33} \sim \sigma^2 \lambda^2$

$\sim \lambda^2 \rho c \sim \lambda^2 \rho c$

6:

$g_{33} \sim \lambda^2 \rho c$





# AM BRUNNEN

W-Brunn:

Br:

1) 1/2 1/2 1/2

W:

1/2 1/2 1/2

Br:

1/2 1/2 1/2

1/2 1/2 1/2

1/2 1/2 1/2

Wh:

a—?

Sh:

-grd!

6 bly, comb-hl.

Wh:

D!

Sh:

— p r e s m.

a r o b ~ 2 m p u!

ea ~ p p u,

senk - w p l o u,

2 b s, 1 s o,

$\sqrt{1 - \mu^2} \cos \theta - c;$

$\sqrt{1 - \mu^2} \sin \theta,$

$c \cos \theta - \mu,$

$\mu \sin \theta.$

$c \sin \theta - \mu;$

erlebe die!

Wh:

erlebe!

Wh:

$\sqrt{1 - \mu^2} \cos \theta,$

$c \sin \theta - \mu,$

$\sqrt{1 - \mu^2} \sin \theta,$

$c \cos \theta - \mu,$

$\mu \sin \theta.$

ce m ~ fe / ~

er m b e) e ~

re m e h ~ h o L!

Wh:

\ ~ d o p o / o ~ h.

Wh:

\ c ~ n ~ ! ~ b ~ h

o e e 2. 0 p e

\ : D / .

Wh:

e : / z ~ !

Dr:

Adon, <sup>ab</sup> r k r',  
emp  $\sqrt{0,4}$  r',  
-2  $\sqrt{f_2}$  r' - 1 r'!

u.

Dr: (D<sub>2</sub> r)

Adon d - r k z',  
c r - r o r k r' k r!  
Adon d i' r  
k r i' r k r!  
o r v r z', - z' d r,  
v r d / z' i' r c,  
- o r d - u - l o,  
- v r b' r e u o!  
d m - e o, c o y r k,

$2! a - 4! D, a - 4!$

# ZWINGER

z'z'z' ~ Abw' mens, w' r' a.

W g/ g' w' z' i' r'.

D ~ z,

g' z' p' r' z,

e' d' r' o' r' z' ~ r'!

e' z' / r' z' p',

z' l' o' z' p'

w' b' s' / e' o' o' o' l' e.

j' s' h' w' b' e',

- o' g' z' p' e'

z' s' z' o' i' - e' ~ r'.

ca b1,

o o 1

zyv R p?

coz no zy x u,

co-put, co u,

cb → e, → e u!

ca, R n

o o, o o, o o

r v R L x!

r u, D! n u,

r c, r c, r c,

e zy p u v.



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 - 40  
41, 42,  
43, 44, 45,  
46, 47, 48, 49, 50!

NACHT

fo - W. n

~~Leu~~ o - el, W. lo. ei.

c<sub>1</sub> - o o l r p,

c u h ) w n v,

- , p u r v ~ l

\ r n , f o r ,

2 r r o e r g d,

~ u l n g p d,

o o , r r b n v,

2 \ . ? g e m y

- f r D r e r w

- r r e - r o / r e

- o r : » e o n o n !

и: R2p c,  
и h h h h,  
и ж е с о √ а «  
√! √! √! √! е r z;  
и жу: » о h,  
о: y s p p l. «  
е с о . и h p;  
- ~! ~ о z ) - p h  
- ~ ~ о с z p l! ~  
z p h e, н о p  
° t e r y ~ r p p p!  
° о ~ л о p e n p  
√ t e r p e c √ p p p!  
- √ 16 p p o  
√ 16 o / p r z o.

com 2? co 2/2?

1/1, -2/2.

0, 2/2/2/2/2

0/005' 2/2!

0. 2/2/2.

0:

0 2/2/2/2/2

0 2/2/2/2/2

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

- 2/2<sup>0</sup> 2/2/2/2!

- 2/2/2/2/2/2.

alg. lo.

- v b o r z g l o,

e n l e n z g l o,

J o e r i s n f l o,

v b r y n e a,

- b o p, - b r e.

- p l v g r e s e

i n c h e n d l.

i n d i s n e e,

e c o n d, c r u d l.

6:

v c i g g i z i z z,

~ i e d a l b e n o s?

alg. Co.

1. n, l, e, l, e, n, s,

e, n, o, h, 2, p, n.

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

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

6:

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

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

alg. Co.

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

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

6:

—:  $\sqrt{1} \cdot \sqrt{4} = 0,3$

$0,1 \rightarrow \sqrt{0,1} \cdot \sqrt{10}$ .

~~2/3~~ 60:

$\sqrt{1} \cdot \sqrt{100}$ ,

$\sqrt{10} \cdot \sqrt{100}$ .

$\sqrt{1}, \sqrt{10} \rightarrow \sqrt{100}$ ,

$\sqrt{1} \sim \sqrt{100} \cdot \sqrt{10}$ :

$\sqrt{10} \sim \sqrt{100}$ ,

$\sqrt{10} \cdot \sqrt{100}$ .

$\sqrt{1} \cdot \sqrt{10}$ .

$\sqrt{10} \cdot \sqrt{10}$

$\sqrt{10} \cdot \sqrt{10}$ ,

$\sqrt{10} \cdot \sqrt{10}$

✓ *mn* *mn*?

*o, o, o!*

*\ b d ~*

*o r l h ~,*

*o r l h / p.*

*o d / z R!*

*\ b,*

*e z R'*

*\ n u, n u o n!*

*o r / k,*

*4 ~ r d*

*\ g p*

*o r <sup>2</sup> ~ n b u.*



*Sw:* (11)

u b e x i u r u!

u e s p h u!

j l e t e f u!

j l e t e ~ o u!

*Uf* *eo:*

i j u i y ! ~ i ' j 2 f .

*Sw:*

~ i ~ ~ j e f u!

*Uf* *eo:* (j l)

u e , / p h u ! j u!

u ~ u p u , u , ~ l u .

u o l ~ u l e u d!

$\rightarrow \mathbb{R}^n \rightarrow \mathbb{C}^n$ .

*Lemma:*

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

*Lemma:*

$\mathbb{C}^n \times \mathbb{C}^n \cong \mathbb{R}^{4n}$

*Lemma:*

$\mathbb{D}^n \sim \mathbb{R}^n$

*Lemma:*

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

Lehr:

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.

co. en. el. g. r. se. v. n.

Uf. lo. (y. l.)

f. o. j.!

Lehr: (L.)

— co.!

Uf. lo.

~i. n. p.!

~u. l. r. v. s. j. ge.

en. g. r. ~v. en. f.

1. co. v. h. r. C. f.

el. r. v. n. p. v. l. v. n.

wp: (n l d)

2a! 2a!

wp: (n l d)

$x \sim n!$

wp: (o w)

$wz - ll, wz - ll.$

Ln:

$ez - ll$

wp: (2o/wc)

$1, 2e, 2e, 2e$

Wh: (solve)

ca d'or?

Ln:

e r n o r:

Wh:

erllw! cD n!

Ln:

r g r! e . u e p t

- u e r 2 p r.

c o g r r c u, 2 l - n r?

n r c - 2 l v r n!

e k n r o:

2 Wh, 0! e b 2 L,  
b 2 2/p m  
The 2 fl.  
1 0 0 R L  
e b 2 ~ ~ ~ ~ ~  
— ° D m U!

Wh:

2 e! 2! 0° v e!

Lm:

o i n n o<sup>2</sup> p o!  
p i l h ~ p  
— o, n, — ° n.  
e b 2 ~ ~ ~ ~ ~  
e l ~ ~ ~ ~ ~

- c d h ~ e y e z,  
- c d h i j k l.

c h i j k l m n,  
o p q r s t 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.  
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.  
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.  
- o p q r s t 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.  
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.

1000000, f,  
e. 150000,  
05-10-1912,  
10, 10, 10, 10, 10,  
000000000000,  
000000000000!  
000000000000!  
000000000000!  
000000000000!  
000000000000!  
000000000000!  
000000000000,  
000000000000,  
000000000000!



WB:

U<sub>1</sub> → 0 2 1 / 2 n!  
→ 1 2 3 4 5 6 7

L<sub>1</sub>:

U<sub>1</sub> → 0 2 1 / 2 n!  
e.g. 1 2 3 4 5  
e.g. 1 2 3 4 5  
m<sub>2</sub> 2 3 4 5

W<sub>1</sub>:

2 3 4 5 6 7

L<sub>2</sub>:

1 2, 3, 4, 5  
e.g. 1 2 3 4 5

$26 \nu \sim 25 \text{ } 2 \text{ } 0.$

$12 \nu \sim 1 \text{ } 0 \text{ } 1$

$12 \nu \sim 0 \text{ } 0 \text{ } 1 - 1 \text{ } 1.$

$g \text{ } 1.$





2:

Dies irae, dies illa

Solvat saeculum in favilla.

*Handwritten signature*

1026:

n. b. d!

, C. L. d!

, M. U.!

- e. 27,

o. p. s.

J. L. d.

E. 27,

U. S.!

Wh:

u, x o!

v; o r, ~ r v

~ n of,

p r z y

r b f.

2:

Judex ergo cum sedebit,

Quidquid latet adparebit,

Nil inultum remanebit.

Wh:

v' \_ r!

r n l

u r!

ep  
m d! m d!

co 26:

m d! ce - ge

u / u m

ep d!

es er!

2:

*Quid sum miser tunc dicturus?*

*Quem patronum rogaturus?*

*Cum vix justus sit securus.*





# WALPURGISNACHT

27.10.1980 - 1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

1.11.1980

er oder / y n,  
S 2. E) d fere g d,  
e i, b, 2 le d!  
- b d z ~ u n,  
- b, l l b r z;  
d, / D s i z u n?

~~ab~~ lo.

l a, r g r d!  
v: - d r u,  
r d z - l b s r u.  
d h g t, u n z z  
o ~ u r e l g h z z  
- u g h, e u l t e r f  
u ~ u ~ u l e n t!  
u, e i ~ N A!

e/o, e, e, e, e, e.

2e! 2e! e! e! e! e! e!

co - e - mo - en!

→ e - y - n - e - s!

*nl:*

e - n - l, 2e, 3, - v - p - e,

2e - n - e - p - e;

→ p - e - p - e - s!

*nl:*

! / ! - e - n - e - p - e - p - e.

v - e - n - e - p - e - s!

e - n - e - p - e - s.



- , r l e n o s ;  
o b z h , o b l o !

p , f , p ~ v o  
- 1 0 - 0 2 r .

2 ~ 1 y ? 2 ~ 1 h ?

2 ~ 1 2 e l o n s ,

f u l r d o n ?

c o r 2 h , c o r 1 h !

- e h , o , o

Δ f , 2 . 1 E .

» z ! z ! « L / ~ s ,

y - r h - ' 2 s ,

z b - o p h ?

z e 2 h e f f ?

~ u, or u!

-, a, or, o, p, r,

or) e lo - or,

for or or,

r, p, r, r, b, r;

e lo or or

for o (b) or

D<sup>2</sup> or. - r,

or or, p, or,

per or - p, or!

-, b, or or

r or or

r or, r.

uov, rfr  
a rrc r2?  
eo, eozl, jr,  
lo-ur, pf  
zhr, -, r, hr,  
i) ur, i) ur.

rlf lo.

lo ur rfr!  
r: ~ rhr  
c ur rfr,  
o r ur r r.

lf:

o r rfr, r  
~ r ur r r!

- 6<sup>4</sup>, 1, 1, 1, 1  
o 1, 1, 1, 1, 2.  
e, f, 1 ~ e, f, e, f, 1, 1, 1, 1,  
x, 1, 1, 1, 1, 1, 1, 1, 1  
e, f, 1, 1, 1, 1, 1, 1, 1, 1  
e, 1, 1, 1, 1, 1, 1, 1, 1, 1.  
x, 1, 1, 1, 1, 1, 1, 1, 1, 1  
1, 1, 1, 1, 1, 1, 1, 1, 1, 1,  
- x, 1, 1, 1, 1, 1, 1, 1, 1, 1  
1, 1, 1, 1, 1, 1, 1, 1, 1, 1.  
e, f, 1, 1, 1, 1, 1, 1, 1, 1, 1  
o, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1.  
e, f, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1  
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1.



2/3 Co.

1/1, 2/2

2/2, 3/3 ~ 4/4

~ 2/2, 3/3, 4/4

1/2, 2/3, 3/4

6:

1/2, 2/3, 3/4

2/2, 3/3, 4/4 ~ 5/5

2/3 Co.

1/2, 2/3, 3/4

1/2, 2/3, 3/4, 4/5

~ 2/2, 3/3

2/2, 3/3, 4/4

1/2, 2/3, 3/4

2, -ghu, on

oh Co.

m-Oh! b!

gruoen!

agruen-zu!

Abhucule

suhbe

-p, sp, st

gr-zu, st.

26ygrizs?

zhus, izs?

h, ~ zu, w, r

fd - cr, pr!

*z*: (R2)

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

1.  $f(z) \sim \ln z$ ,

$e \sqrt{z} \sim \ln z$ ,

$z \sim \ln z$ .

$-z \sim \ln z$ ,

$- \ln z \sim \ln z$ .

*g*:

1.  $z \sim \ln z$ ,

6.  $\sqrt{z} \sim \ln z$ .

*z*:

$-z \sim \ln z$ ,

$z \sim \ln z$ ,

$z \sim \ln z$ .

erl'nyshol.

gr:

ch on d e r?

gr:

si x y z!

er 2 / i - no b 2,

1, 11 - 6 2!

gr:

— 6 / 2 —!

co ✓ 6 — 2 —!

*gr:*

*Dröpper*

*erob* ← *ce!*

*Dr, Dr:*

*ci·L*; *ci·r*

*ci·el* ~ *Lu·er?*

*in·gl*; *wo·ng*

*er·ce·gl*; *in·gl*.

*Dr·b, der Dr:*

*r·z·Dr*; *r·z·Dr*

*in·ce·<sup>2</sup>·e*

*er·n·j<sup>o</sup>·wo·z*

*er·ce·gl*

re 200:

1. 200 e/ - ps

2. 60 ps 20. 1. 5;

3. 0.6) D - m, n,

4. 2 ps 20. 2.

ps: (1-2)

~ 2, ~ 2, 1. 600!

ps: (1-5)

1. 200 m 2. 1. 2.

1. 200, - 600<sup>2</sup> 1. 200 - 2;

u D 0. 600



1.  $c \sim m \sim 2 \sim 2$ .

2.  $e \sim 2$ :

-  $H \sim \omega, H \sim f$

$m \sim H, -H \sim \omega$

$c \sim 2 \sim 1 \sim m \sim$

$\cdot \sigma \sim \omega \sim m$ .

2.  $\omega \sim 2$ : ( $\omega \sim$ )

1.  $K \sim D, - \sim f$ ;

$\sigma^2, h \sim 2 \sim \omega$ !

1.  $2/3 \sim \omega \sim$

-  $\sim \omega \sim \sigma / e$ .



$L \setminus L:$

$$1. \text{ od } \mathcal{N} \sim \mathcal{L} \mathcal{N}_1$$

$$\sim \mathcal{N}_1 \mathcal{J} \mathcal{O} \mathcal{N}_1$$

$$\sim \mathcal{N}_0 \mathcal{J} \cdot \mathcal{L} \mathcal{N}_1$$

$$\setminus \mathcal{L} \mathcal{N}_1 \setminus \mathcal{N}_1 / \mathcal{L} \mathcal{N}_1.$$

$\mathcal{L} \mathcal{L} \mathcal{L}:$

$$- \mathcal{C} \mathcal{R} \mathcal{L} \sim \mathcal{L} \mathcal{P}_1$$

$$- \mathcal{J} \mathcal{N} \sim \mathcal{L} \mathcal{L} \mathcal{N}_2$$

$$- \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} - \mathcal{L}$$

$$\mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L}$$

$$\mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L}$$

$\mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L}:$

$$\mathcal{L} \mathcal{L} \mathcal{L} - \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} - \mathcal{L} \mathcal{L} \mathcal{L}!$$

$$\mathcal{L} \mathcal{L} \mathcal{L} - \mathcal{L} \mathcal{L} \mathcal{L} \mathcal{L} - \mathcal{L} \mathcal{L} \mathcal{L}!$$

e.  $\mathbb{N}$  ist  $\sigma$ -algebra!

$\sim$   $\sigma$ -algebra!

$\rightarrow$   $\mathbb{C} \sim \mathbb{R}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$ :  $(\mathbb{C}, \mathcal{C})$

$\mathbb{R}$ !

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

$\mathbb{C}$   $\sigma$ -algebra!

- 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

6:

denkmal!

2017-akt.

entf. v. j. 2000;

entw. v. 2000.

18. 6. 00.

entw. v. 2000.

2000, 2000-000,

1-2000-2000.

- 2000,

entw. v. 2000-2000.

entw. v. 2000-2000,

- 2000, 2000-000.

entw. v. 2000;

entw. v. 2000.



2/1/20.

for 10 ft, north 1/2,

to be a 2000 or so.

~ north 1/2 1/2,

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

to be a 2000 or so.

20:

$a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$

21:

$a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$

22:

$a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$   
 $a \sim \sqrt{h}$

-merkelst-.

zi:

cncssty-ff

Subnntor!

-coetL Lndll,

e:2~ncop:

df lo: (sno dgt)

jt n b e L n p l,

en j f e ~ B u n g r,

-c r b k u l l,

-i d s ~ r.



Lesl.

12, 21 - 1!

6, 12/12!

12, 21 - 12, 21,

- 12, 21.

- 12, 21,

2, 12, 21,

12, 21, 12, 21,

12, 21 - 12, 21.

12, 21, 12, 21,

12, 21, 12, 21,

12, 21,

12, 21 - 12, 21,

12, 21, 12, 21,

12, 21 - 12, 21.

alg. Co.

6 20! 6 10 20! 6

10, 20! 20, 20!

10 6) 5 20!

10 20 20 20

6:

e, 20 10 20!

20, 20 e 20 20!

alg. Co.

20 20 20 20 20

20 20 20, 20 20



6:

es of j, i d' hui

12 j co b fu!

2/3 lo.

es ~ 2 ~ ~ ~

- 21 j ~ 2 h j, ~ ~ ~ ! r 2 h j.

6: (2' h u y e)

~ d i ~ ~ ~ h

es o ~ ~ ~ lo

j ~ ~ ~ h ~ ~ ~

o ~ ~ ~ j ~ ~ ~

1. 2:

1. 2. 3. 4. 5.

6. 7. 8. 9.

10. 11. 12. 13.

14. 15. 16. 17.

18. 19. (2. 3.)

20. 21. 22. 23.

24. 25. 26. 27.

28. 29. 30. 31.

32. 33. 34. 35.

1. 2:

1. 2. 3. 4.

5. 6. 7. 8.

9. 10. 11. 12.

c. e20. 1/27.

*L. h. 100:*

Mo L. 100! 100/100?

20 100/100:

~ 20/100 100/100?

~ 100/100, 100/100?

*1/27:* (L. 100)

co-100 100/100?

*1/27:* (L. 100)

1/27 100/100.

co-100, 100/100.

1/27 100/100.

1/27 100/100.

$r^2 \sim r, -er \sim r^2$   
 $cr \sim r \sim r^2$ ,  
 $cr \sim r^2$   
 $er \sim r^2$   
 $cr \sim r^2$ .

*Ergebnis:*

$r^2 \sim r, -er \sim r^2$   
 $er \sim r^2$   
 $er \sim r^2, -er \sim r^2$   
 $r^2 \sim r, -er \sim r^2$   
 $er \sim r^2, -er \sim r^2$   
 $-er \sim r^2, -er \sim r^2$





alg. 60:

$$\sqrt{2} \sqrt{2} = 0 \text{ of } \text{of}$$

$$e \cdot \sqrt{2}, 0 \cdot \sqrt{2}$$

$$-0 \cdot \sqrt{2} \sim 0 \text{ of } 0 \text{ of}$$

$$\cdot \sqrt{2} \sqrt{2} - \sqrt{2} \sqrt{2}$$

$$\sqrt{2}, \sqrt{2} \sqrt{2}$$

$$0 \cdot \sqrt{2} \sqrt{2} \text{ of } \sqrt{2}$$

$$0 \cdot \sqrt{2} \sqrt{2} = 0 \cdot \sqrt{2}$$

6:

$$\sqrt{2} \sqrt{2} \sqrt{2}$$

$$\sim \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2}$$

alg. 60:

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

$$\sqrt{2}, \sqrt{2} \sqrt{2}$$



alg. lo.

oe  $\rightarrow$  fu! a d' nec.

i ~ fu!; a, ~ t:

Rjumi; / z:

Sgn w y w o zgn w,

- ' b z f w t;

S' res o e t p d.

U:

la, -<sup>2</sup>, n  $\rightarrow$  v h,

, - nec x e / z o.

e: i, U, i, W v f h,

e: ' b z, ~, p o.

2/3 Leo:

e: ju, g. N. W. L. !  
e. ter n. 600. L. W.

6:

ed - cu! ed - cu!  
in 5 q. w. / z. L.  
o. dr. 20. 9. z. n. 2. 0  
~ ~ p. ~ 20. p. L. z. n.  
1/2 o ~ 20. n. !

2/3 Leo:

2/3 L. 1. 0. - n. L. e.  
6. n. e. 20. D. L. n. L. n.  
e. L. o. 20. 1. 4. p. n.  
~ ~ n. 9. 6. J. L. !

~ d e r h z,  
x p - f o r h  
- v o l y h,  
- o i c u ~ h h.  
c o r e e s?

o d o :

z h w e n.  
~ ~ s o p, e f g s o h.  
T j m i a ' b,  
~ o h s, p h  
- o h p o d.  
y, r a n, c i g e  
D e n t, ~ s e y y.

alg. Geo.

$c_1 \rightarrow s^2$   $\hookrightarrow$   $c_2$

$e^{c_1, 2, 1} \rightarrow e^{c_1, 2}$

# WALPURGISNACHTSTRAUM

er

wo-wo  
einzig

my

was:

zzz wo,

wo ein.

wo-wo,

einzig!

2. l:

$e_{12} \sim \text{zer}$ ,  
 $i^2 \sim \text{Lp} \sim \text{L} \sim \text{H}_i$   
 $n^2 \sim \text{L}$ ,  
 $e_{22} \sim \text{v. h.}$

3. l:

$e_{12} \sim \text{L}, e_{11} \sim \text{v.}$ ,  
 $- \text{L} \sim \text{L} \sim \text{L} \sim \text{L}$   
 $\sim \text{L} \sim \text{L} \sim \text{L}$ ,  
 $b^2 \sim \text{L} \sim \text{L}$

4:

$\sim \text{L} \sim (\text{L} \sim \text{L}) \sim \text{L}$   
 $- \text{L} \sim \text{L} \sim \text{L} \sim \text{L}$ ,  
 $\sim \text{L} \sim \text{L} \sim \text{L}$ ,



1) D 2 R / L i

*n*:

$n \cdot 101 \sim a$

$z \cdot 200 \sim L$

$f \cdot 100 \sim r$

$d \cdot 100 \sim z$

*m*:

$m, 1) m \sim$

$m \cdot 100 \sim$

$c) f \cdot 100 \sim$

$u \cdot 100 \sim z$

124:

$z \sim w - h, h,$

$- b_0 \rightarrow v_0,$

$\sqrt{v} \sim D^2 m_0,$

$- \sim \sim \sim e_0 r.$

125: (cont)

$l_{\text{eff}} - v_{\text{no}}$

$z \sim w - h,$

$l_{\text{eff}} - b_0,$

$e^z, z \sim!$

126:

$\sigma, \sigma \sim \sigma!$

$- \cdot, \sigma \text{ has.}$

$z \sim z \sim z$

10/17 ~ 10

26, 27/10/11

gublo - ~ 100

- 1000000000

g ~ 1000000000

1000000000

~ 1000000000

~ 1000000000

1000000000

g ~ 1000000000

1000000000

~ n n ~ oc:

• e / 20 n l y ?

o ~ n k

u, ~ j n 2,

D 2 2 x / j i ?

~ e e ?

~ n n ~ j y !

d u d - o j l :

— o, 2 n D u e,

— D, ~ L l.

~ o j n ~ d :

o 1 D l, e 2 1

l a → o b c o ;

d 1 u ~ d j

1/2  $\sqrt{2}$

1/2

1/2  $\sqrt{2}$

1/2  $\sqrt{2}$

1/2  $\sqrt{2}$

1/2  $\sqrt{2}$

1/2

1/2  $\sqrt{2}$

1/2  $\sqrt{2}$

1/2  $\sqrt{2}$

1/2  $\sqrt{2}$

sch:

12/1/2007

2007/1/20

2007/1/20

— 01<sup>0</sup>, 10

sch:

1000-1000

1000/1000!

1000-1000

— 1000/1000!

sch: (1000-1000)

1000, 1000

1000/1000!

— 1000, 1000

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

10: (10, 10, 10)

10) 1, 2, 3, 4, 5,

6, 7, 8, 9,

10, 11, 12, 13,

14, 15, 16, 17, 18,

19:

10, 11, 12, 13,

14, 15, 16, 17, 18,

19, 20, 21, 22,

23, 24, 25.

2. 20:

σ, σ b z p f z

σ g z p!

σ σ σ b z z,

σ z z z p.

2. 21:

σ z z z z z

σ z / z z z;

σ z z z z z

σ z z z z.

2. 22: 2. 23:

σ z z z z z.

σ, σ z z p!

σ z z z, σ z z z,



он ~ л ~ б.

~ п ~ о:

о, о, о, б, г, л, н?

~ н, г, п, ж.

~ г, л, с, о, г, л, н.

» ~ г, л, б, ж.»

~ п:

~ н, н, н, н, н

- Д, Р, К, Л, Ж;

о, о, о, ~ л, н, н

) Д, Р, К, Л, Ж:

clp:

h, l, l, u, u, v;

ies ~ b;

6 v l s<sup>2</sup> u s u x

u u l o ~ u:

h:

es u l c ~ u s o 2?

1 2 v l u l u.

»  $\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$

1 ~ u ~ e ~ u.

h:

o t e d, u d!

, a ~ n, 2 d!

' n j p; l s d!

-H/0-1.

len:

ex) z, e, a, b,

-2) m e b;

-1) a' e b;

o b' m, yu.

enm:

1) o p / n z,

1) p m z y b.

\ L e o d k o o;

o z b e o d / L e b

sub:

1.  $l_1, l_2, l_3, l_4$

•  $n_1, n_2, n_3$

$l_1, l_2, l_3, l_4$

—  $n_1, n_2, n_3$

sub:

$l_1, l_2, l_3, l_4$

—  $n_1, n_2, n_3$

$l_1, l_2, l_3, l_4$

$l_1, l_2, l_3, l_4$

sub:

$l_1, l_2, l_3, l_4$

—  $n_1, n_2, n_3$

$l_1, l_2, l_3, l_4$

522630.

522630:

622 ~ 622 5 1 p

- 22 ) 5 2 2 2

5 2 2 2 2 2 2 ;

5 2 2 2 2 2 2

522630:

6 2 2 - 6 2 2,

6 2 2 !

6 2 2 - 6 2 2,

6 2 2 !

1,00:

rob [Sanssouci], — 26e2

S. 6m p. li;

s ~ 00 24/2,

4 22 15 ~ 2h.

1, p. 20:

o d 2 r 2 h 0 f f,

~ 2 1 d e n!

± p 2 4 h f,

r. h s n t o n.

1, 4:

S<sup>2</sup> of ~ 2 1,

o r 1 d p e i;

o 2 1 2 p 2 2 2

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

suppl:

0 2 2 2 0 1 0

$R_{12} = -L_{12}$

$R_{13} = R_{10} = L_{13}$

in all v.s., L?

1, 2, 3:

$G - G' = \sqrt{2}!$

—  $n_i, 2 \text{ or } 7.$

$2 \text{ or } 2, 2 \text{ or } 1,$

$6 \text{ or } 6 \text{ or } 2.$

⊂:

$M_1 \sim 2b^5$

$\sigma \sim \ln n$ ,

$\sim \ln n \sim \ln n$

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

⊂:

$n, n \sim n$ ,

$n \sim 2b \sim \ln n$ ,

$\ln n \sim \ln n$ ,

$\sim \ln n!$

⊂:  $(\ln n)$

comp- $\ln n$

$\ln n \sim \ln n$ .

$\ln n \sim \ln n$ ,



— 0 i f r .

# TRÜBERTAG. FELD

cf. d. f. l. o.

cf:

re: g l e: wa s' re n N - m f r i !  
o v o m r m m j o g n e n y g t , e z e  
e r p l ! e e ! e e ! m m g t , i o m z o , - e e e  
v s t ! m p t , p ! e y , l g n m m e r  
r l z ! p - y v e p h e m e ! f r i ! r  
f l m r e ! l o z o m m - i s t e r p o  
z g g ! - v d e y i z y g t f f z i , u d v m  
d o e h - o o z l o e m !



uly lo.

~<sup>2</sup> r g E ~ h y z o c p, e, c ~ u g i ~ o s p l.  
c u r t h e p u f r s c e b / d u n ~ - b n - b  
i g e / b i e n r s o s, e e d s?

ly:

l y e b b j u v / - m! v ~! ~ l o, z u  
z b, i e v / g u o o t, i e z z y n b - z  
o, c u ~ ~ p e p u v g e i, ) n g e c e i - n  
e u ) j?

uly lo.

o d e?

6:

$\sqrt{b!} - a \cos a! \sim \sqrt{b!} \ln \frac{b!}{a!} \ln a!$

alg. Leo:

$\sqrt{a}, \sqrt{a} \circ \sqrt{b} / \sqrt{a}, \sqrt{b} / \sqrt{a} \ln \dots \gg \sqrt{b!} \ll$   
 $\sim a \cos, b \sin \ln \sqrt{a!} ? \sqrt{a} \ln a!$

6/10/20.

alg. Leo:

$\sqrt{b!} \ln \sqrt{a!} \ln a! \ln a, e \sqrt{a} \ln \sqrt{a} / \sqrt{a}$   
 $\cos! \sim \sqrt{a} \sin a \sqrt{a}, e \sqrt{a} \ln a, ) \sqrt{a}$   
 $\sqrt{a} \ln \sqrt{a}$

6:

W 216° 0' 0"!

df. 60:

- 1, 1/2, 1/4, 1/8, 1/16, 1/32, 1/64, 1/128, 1/256, 1/512, 1/1024, 1/2048, 1/4096, 1/8192, 1/16384, 1/32768, 1/65536, 1/131072, 1/262144, 1/524288, 1/1048576, 1/2097152, 1/4194304, 1/8388608, 1/16777216, 1/33554432, 1/67108864, 1/134217728, 1/268435456, 1/536870912, 1/1073741824, 1/2147483648, 1/4294967296, 1/8589934592, 1/17179869184, 1/34359738368, 1/68719476736, 1/137438953472, 1/274877906944, 1/549755813888, 1/1099511627776, 1/2199023255552, 1/4398046511104, 1/8796093022208, 1/17592186044416, 1/35184372088832, 1/70368744177664, 1/140737488355328, 1/281474976710656, 1/562949953421312, 1/1125899906842624, 1/2251799813685248, 1/4503599627370496, 1/9007199254740992, 1/18014398509481984, 1/36028797018963968, 1/72057594037927936, 1/144115188075855872, 1/288230376151711744, 1/576460752303423488, 1/1152921504606846976, 1/2305843009213693952, 1/4611686018427387904, 1/9223372036854775808, 1/18446744073709551616, 1/36893488147419103232, 1/73786976294838206464, 1/147573952589676412928, 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1/14474011156382511346346373126085988481658748083205070504932197726111234260992, 1/28948022312765022692692746252171976963317496166410141009864395452222468521984, 1/57896044625530045385385492504343953926634992332820282019728790904444937043968, 1/115792089251060090770770985008687907853269984665640564039457581808889874087936, 1/231584178502120181541541970017375815706539969331281128078915163617779748175872, 1/463168357004240363083083940034751631413079938662562256157830327235559496351744, 1/926336714008480726166167880069503262826159877325124512315660654471118992703488, 1/1852673428016961452332335760139006525652319754650249024631321308942237985406976, 1/3705346856033922904664671520278013051304639509300498049262642617884475970813952, 1/7410693712067845809329343040556026102609279018600996098525285235768951941627904, 1/14821387424135691618658686081112052205218558037201992197050570471537903883255808, 1/29642774848271383237317372162224104410437116074403984394101140943075807766511616, 1/59285549696542766474634744324448208820874232148807968788202281886151615533023232, 1/118571099393085532949269488648896417641748464297615937576404563772303231066046464, 1/237142198786171065898538977297792835283496928595231875152809127544606462132092928, 1/474284397572342131797077954595585670566993857190463750305618255089212924264185856, 1/948568795144684263594155909191171341133987714380927500611236510178425848528371712, 1/1897137590289368527188311818382342682267975428761855001224673020356851697056743424,

U:

$s - e!$

# NACHT, OFFEN FELD

$\mathbb{C}, \mathbb{R} \text{ bzw. } \mathbb{R}^n, \mathbb{R}^m$

$\mathbb{C}$ :

$\cos u, e^{\sqrt{2} \sim \text{Bsp?}}$

$\mathbb{R} \text{ bzw.}$

$\cos, \cos \sim \text{L-glu.}$

$\mathbb{C}$ :

$\text{zu } s, \text{ zu } a, \sim \text{zu}), \text{L-glu.}$

$\mathbb{R} \text{ bzw.}$

$\text{— Bsp.}$



6:

6f<sub>2</sub>-c<sub>2</sub>:

2lf<sub>2</sub>co:

u! u!

# KERKER

42  $\text{re } \rho - \text{re } \rho$

4:

$\rho \text{b} \sim \text{ndx} \text{z}$

$\text{~} \text{z} \text{z} \text{z} \text{z} \text{b} \text{b} \text{z}$

$\text{x} \text{c} \text{b} \text{z} \text{r} \text{b} \text{z}$

$\text{~} \text{r} \text{b} \text{z} \text{z}$

$\text{e} \text{f} \text{e} \text{z} \text{z}$

$\text{e} \text{b} \text{z} \text{z}$

$\text{r} \text{e} \text{z} \text{z} \text{z}$

$\text{~} \text{z} \text{z} \text{z} \text{z} \text{z}$

2 2, 1 2

1 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 2!

6: (2 2)

6 2 1, e 2 2,

1 2 2 2 2, e f 2, e y.

1 2.

www: (j s<sup>2</sup> m ure)

os! os! b n n. th Le!

cf: (s)

g! g! 1 n n, d j d n.

www: (j ~ n x j c)

be ~ n j, - b 2 n 1.

cf:

e', d n e<sup>2</sup> z l j n!

- b, n n, b g g o.

www: (s ~ n n)

c o o 2 n 9 d

s d n!

עד ד'ג'ר'ל.

עד ד'ס'ר'ל!

ל'ר'ל/ג'ר'ל?

6 ג'ר'ל.

עד ד'ג'ר'ל - ל' - ל'!

- ג'ר'ל!

ג'ר'ל, - עד ד'ר'ל.

ס'ר'ל/ג'ר'ל;

ל'ר'ל/ג'ר'ל, ל'ר'ל/ג'ר'ל.

ל'ר'ל - ג'ר'ל!

ג'ר'ל/ס'ר'ל, ג'ר'ל/ג'ר'ל?

ס'ר'ל/ג'ר'ל,

ג'ר'ל/ג'ר'ל/ג'ר'ל!

Q:

$c_1 \sim h_{yz}$ !

www:

$10 \sim 2y \sim 2e \sim 2l$ .

$00 \rightarrow 1e \sim 2e \sim 2h$ .

$12y - 92y \sim 2l$ ;

$6 \sim 2e \sim 2y \sim 2m$ ,

$-2m \sim 1 \rightarrow 1 \sim 2y \sim 2l$ .

$-2e \sim 2e \sim 2e$ .

$6 \sim 2e \sim 2y \sim 2l$ ;  $10 \sim 2e \sim 2l$ !

$\sim 2e \sim 2e \sim 2e$ ,

$12 \sim 2e \sim 2e$ ?

U: (all) r

~ versterker,

1. kumuliert.

was: (all) / r

1. 0.5 m, 2. m pl!

0! 1. m pl,

1. 2. m

0! 1. 2. m!

1. 2. m,

2. 1. 2. m,

1. 2. m!

U: (1)

1. 2. m!

www: (sua)

ea° lo pu!

o pu s. i. n. h. e. n. a.

C. i. b. i. r. h. 2. n.

1. v. l. v. o. n. e. c. n.

~ o ~ 2. o. - 1. b. n.

~ o ~ 4. o. n. i.

1. l. n. i. g. e. s. i. z. e.

2. o. 2. n. - n. i. 2. n.

1. ~ n. n. , l. l. p. 2.

n. i. 1. ~ o. , ~ n. e. l. n.

6:

1. v. o. !



www:

g, b! , a, j ~ u!

~ b<sup>c</sup> . \ b! \ b! c a : ~ b!

c a , n d ° m m s ! \ m s !

g, b! ~ d, v j ~ u.

1 v ~ u!

j , f o e e

s \ v j f v o

- \ v ~ u

c i ~ u e e ~ u

U: (fve)

~ u ! ~ u !

WML:

$\frac{1}{c}$

$c \rightarrow \partial - m, c \text{ g c b.}$

mo.

Q:

$\rightarrow!$

$c \text{ g / } \rightarrow b$

$c \text{ r L } \rightarrow \sigma \sigma.$

WML:

$\sigma \text{ g r / } \rightarrow \sigma \sigma?$

$\rightarrow b \text{ c, } \rightarrow \text{ g } \sigma \text{ d d}$

$\rightarrow \sigma \sigma \text{ e n / ?}$

$c \text{ r } \sigma \text{ r e r } \rightarrow \sigma \text{ - } \sigma \text{ i}$

condenser, e n w

~ 2x 2y 2z 2w  
- 2y 2z 2w, 2x 2y 2z

2y 2z

2x 2y 2z

2y 2z

2x 2y 2z 2w

2y

2x 2y

2y

2x 2y 2z

2x 2y 2z

6:

2x 2y 2z 2w, 2x 2y

2x 2y 2z 2w

2x 2y 2z 2w 2x

www: (j r p o i)

- b e g e i - b e g i j p o i

6:

1 v o ! ~ r r !

www:

e r b, l o n o,

r d e r p e r z o.

a n d, e e p - v / z b ?

- c b e a r, r l o c e y d b ?

6:

r r r r z c r, d r.

www:

www, 1, 2, 3,

www, 1, 2, 3.

www - 1, 2, 3?

www, 1, 2, 3, 4, 5

www, 1, 2, 3, 4, 5

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www.

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www:

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

www:

~ , e r b s t u !

1 - o , h u f u ,

l , r b e o m

z r u ;

~ u ~ b e m ,

z u e r s e u ,

v ~ a r t ,

~ / u j c !

- e ~ u ~ v ~ , s t u .

~ u e ' o d e v s u ! ~

v ~ e o j p u ,

e a ~ o , ~ z e v !

u - v / u f u ,

v p , o r b , v j e j u ,

o j o e , v s e j u ;

-  $\partial \psi_{e_0} - \omega \psi - \eta, - \psi.$

Q:

$\psi_{e_1, e_1 - \psi, - \psi!$

WWT:

$e_0?$

Q:

$\psi \psi.$

WWT:

$\cdot e \psi e_0,$

$\psi \sqrt{\psi e_1 - \psi!}$

$\int \psi \psi \psi \psi$

$- \psi \psi \psi$

g r b ~ l? — 2 P, ~ 1, 2!

Q:

g r! — → → !, r g l!

wmt:

1 er 11; l v. 9/2 h.

co 2 P, l 2: 6. s. m d v s.

— r, u n / v o

— 2 g r l a p o!

— r, i h e g l

— 6 c v d l h!

Q:

1 6 ~ ~ ~ o



www:

$\sigma^e, \sigma^e$

$\sigma \sim \sigma^e$

$\rho, \rho \sim \sigma$

$\rho \sim \sigma$ ,

$\sigma \sim \rho$ ,

$\sigma \sim \rho$ ,

$\rho, \rho, \rho$ ,

$\rho$ .

$\rho \rightarrow \rho$

$\rho \rightarrow \rho$ ,

$\rho \rightarrow \rho$ !

$\rho! \rho!$

6:

6 0 0!

→ 7, - 0 9 1!

www:

cur → ~ w u!

end r u s r g,

- 0 0 1 0 2 1!

end r u s r g

- 0 1 2 1

0 0 1, 0 0 1, 1 0 1 r g,

0 2 1 - r, 0 0 1 u.

0 2 1, 0 1 1 2

- 0 0 1 1!

6:

all numbers, all numbers,  
— or P, P 20/10.

www:

or P, P, P, P, P, P,  
or P, P, P, P, P,  
or P, P, P, P, P.

6:

or P, P, P, P, P,

www:

or P, P, P, P, P,  
or P, P, P, P, P,  
or P, P, P, P, P.

o r r r r r!

i n p r!

r e s e o;

n / r r r r.

i r r r r), r r r r!

\ G, r r

r r r r.

i r r r, e f r r r.

o b r r r - r r!

f r r r r r.

r r r r r r r r

i r r, i r r r r.

r r, r r r r!

6:

$\frac{1}{2} \rightarrow 1 \sim \text{fem!}$

alg. lo. (y/10)

st. er  $\uparrow$  em.

op. m! fem - Gen!

2 Bejen

\- 2 ments.

www:

co. g  $\uparrow$   $\sim^2$   $\downarrow$  er 2?

! ! g  $\sim$  ! !

co.  $\rightarrow$   $\sim^2$   $\sim$   $\downarrow$   $\sqrt{?}$

\-  $\sqrt{!}$

6:

g°m!

wm:

flr!o!e!v!sm!

df!o: (y!)

nd!n!r!o!p!r!p!

wm:

ev!r!m!r!

r!n!r!z!m!

nt!r!p!y!m!

z!p!v!q!o.

rlf lo.

6: rll!

gr: (S w)

rll!

rlf lo: (y ll)

2/v!

gr rll.

gr: (S m, z.e)

zll! zll!



