

Lebms

GOETHE

FAUST

ha

h



# ZUEIGNUNG

an die, zu dem,  
die, die, die,  
die, die, die,  
die, die, die,  
die, die, die,  
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die, die, die,  
die, die, die.

c. 2. d. N. i. d. f. s.

- p. d. d. n. d. n. l. o. n.

p. d. g. n. n. d. v. b. s.

- g. u. n. z. p. f. t. l. n.

z. f. c. d. i. n. o. z. d. s.

- z. b. v. p. l. u. l. d. ~ l. n.

e. f. z. y. - b. j. v. e. - c. s.

c. o. i. v. s. o. i. v. p. c. s.

- c. o. g. e. v. j. o. n. s.





and er' x/ po?

~ - 6 d - 0 ~ 2.

in all the men

; e l, m d j ca.

a) m. y. c. o.

~ ' o s / m o ~ / d h u;

~ c d j ~ 2 o r o;

2 r p d j g m.

e<sup>e</sup> - u - j t j u p,

b l u b, 2 e m ~ 2 m,

m l, g e, g e, e l,

d, w t j c. i. l. s m j 2 m.

ent:

and b p p p!

u r d j z, u - r d o z.

' b o ~ ~ 2 y f m,

- e. u. f o e h o,

e r r i l' v' j f m,

r<sup>e</sup> ~ j p t m.

~ 2 o ~ / r ~ e 2 o j m,

~ t e r d j r e b c o e.

a b o l w, ' u d h k o l m;

- t e r u f l e o' 2.

w r ~ g; - w - v' j 2 g m!

2 ~ m, - 2 o j m;

l. i. p t, - l. o. g e l.

cos<sup>2</sup>, cr ~ 2p qll!  
e Cos' - 1/2 p m.

du:

r b1, a p ~ 2 p m !  
a c p e<sup>2</sup> h m d p !  
' a i m g  
; m, p ~ 1/2 p m.

en:

~ 2 a b d p m:  
~ m, i b j o m e n t,  
20 s e b e n g, 2 d.  
u e n t, r m c 2 o 2 j j p t,  
- o t 2, b a r j d!  
c o r r e c t d,  
r d h o t s d p r,  
- c o e e n g d e d,  
m u l t i p l i c a t i o n e.  
r d f f, j s, a j ~ 2 o m b,  
- ~ r ~ d d t e n j;  
i e n m) - m G j b  
- p r ~ m j.  
c o l u r s ~ d h s s?  
c o l l ~ 2 o 2 j b?  
u o r m i n s?  
2 d<sup>2</sup> b n d, 2 d<sup>2</sup> b s.



∫ D² g, 2 l ~ n f;  
∫ d n ~ n o n f.  
c o l d r n n l n f,  
f r g, 1 2 d r 2 o n t  
1 o r ∫, w t ~ n - n, n n,  
— ∫ r ∫ g n ~ n  
d t ~ 1 2 g n j d n,  
b j d d n; g n  
c o l d r n² g n, e z p n t

*dh:*

n 2 - d e r ~ n n l l  
∫ d h c e z d d n,  
e z g n l, e r n ~ n n l,  
n e r ~ n l l g p n t  
c e w d ~ e z p n t  
c e w d ~ l e o n t?  
∫ ~ n n l, i o² l o n l,  
— 1 o ~ z y, d x z n t?  
c i n t ~ l e o d n,  
z h e r e, s, g e p n,  
c o n c o p r i j n  
w o e r n n  
c u l, l b e n z t ~ z  
w e r, e o) n d n t?  
c u l l e n p n j g n n c z,  
c i n n a r e z n t

a b ~ p ~ r ~ s ~ t ~ u  
e ~ v ~ w ~ x ~ y ~ z  
a ~ 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  
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

*Handwritten red text:* f Co:

- U ~ b ~ e ~ r ~ z ~ u ~ m ~ m  
- U ~ d ~ d ~ i ~ e ~ p  
o ~ r ~ u ~ m ~ u ~ m ~ u  
f ~ u ~ r ~ u ~ m ~ u ~ m ~ u  
- D ~ D ~ u ~ m ~ u  
- D ~ e ~ r ~ e ~ i ~ n ~ g  
u ~ m ~ u ~ m ~ u ~ m ~ u  
- o ~ r ~ u ~ m ~ u ~ m ~ u  
b ~ i ~ d ~ u ~ m ~ u  
U ~ m ~ u ~ m ~ u  
~ u ~ m ~ u ~ m ~ u  
- c ~ r ~ u ~ m ~ u  
u ~ m ~ u ~ m ~ u  
f ~ u ~ m ~ u ~ m ~ u  
- i ~ d ~ u ~ m ~ u  
~ u ~ m ~ u ~ m ~ u  
e ~ r ~ u ~ m ~ u ~ m ~ u

— r p - j' l u y,  
e o n t o j' p r  
e r c a n ) u n j' a y,  
e r' e e q, u e l o q v t  
— l e r o, c o. P z p u t.  
I<sup>2</sup> b z W, j c u - j R,  
o m d ~ z u l e r ) a z i  
a l l' ; 2 . 9 . R j r h ;  
— c e r p e n t e o .

sh:

— r v D, j ~ E,  
e s, I b P c a,  
e s ) ~ E . p r' l e  
M h u s p,  
e n d v, d s e t,  
i m p c e n d p,  
e s, i l o e l e n D,  
i e l e r' l e t.  
i k i - d p i:  
~ e r d e y - i . f a h.  
r p o d L k,  
e k, z p u e r,  
° 20 r l, i l' k,  
r z h e v p!





# PROLOG IM HIMMEL

in der  
Welt  
erleben

li:

in der, Welt,  
erleben,  
in der  
Welt  
erleben  
in der ~ Welt,  
erleben,  
in der  
Welt  
erleben.

li:

in der ~ Welt  
erleben,  
in der ~ Welt  
erleben,  
in der ~ Welt  
erleben,  
in der ~ Welt  
erleben,  
in der ~ Welt  
erleben.

Dr.

- gebrüder  
Lorenz, Lorenz,  
- Lorenz  
- Lorenz  
Lorenz  
Lorenz  
Lorenz  
Lorenz

Dr.

- Lorenz  
Lorenz  
Lorenz  
Lorenz

Dr.

- Lorenz  
Lorenz  
Lorenz  
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Lorenz  
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Lorenz  
Lorenz  
Lorenz  
Lorenz  
Lorenz





alg. Geo.

~ el

'21:

~ null!

alg. Geo.

ker. end. 1/5 & 1/6.

1/10. 1/10. ker. end. 1/10.

~ ker. end. 1/10.

1/10. 1/10. ker. end. 1/10.

1/10. 1/10. ker. end. 1/10.

1/10. 1/10. ker. end. 1/10.

1/10. 1/10. ker. end. 1/10.

1/10. 1/10. ker. end. 1/10.

'21:

c. v. D. ker. end.

~ ker. end. 1/10.

ker. end. 1/10. ker. end. 1/10.

ker. end. 1/10. ker. end. 1/10.

alg. Geo.

ker. end. 1/10. ker. end. 1/10.

ker. end. 1/10. ker. end. 1/10.

~ ker. end. 1/10.

2:

risied,  
reuten,  
Ning-ri ft.

2/3:

er, 1; 2 ~ 1/2  
2, 1/2, 1/2, 1/2  
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

2:

er, 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

2/3:

er, 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

or  $u, u^2$ .

$\cdot x$ :

$e, e^2, e^3, \dots$

$1, 2, 3, 4, \dots$

$1, 2, 3, 4, \dots$

$\cdot v, v^2, v^3, \dots$

$\circ, \omega, \omega^2, \omega^3, \dots$

$\cdot d, d^2, d^3, \dots$

$e, e^2, e^3, \dots$

$\cdot f, f^2, f^3, \dots$

$d, d^2, d^3, \dots$

$\cdot g, g^2, g^3, \dots$

$e, e^2, e^3, \dots$

$\cdot h, h^2, h^3, \dots$

$-c, c^2, c^3, \dots$

$\cdot i, i^2, i^3, \dots$

$\cdot j, j^2, j^3, \dots$

$\cdot k, k^2, k^3, \dots$

$\cdot l, l^2, l^3, \dots$

$-m, m^2, m^3, \dots$

$\cdot n, n^2, n^3, \dots$

$-o, o^2, o^3, \dots$



# *DER TRAGÖDIE ERSTER TEIL*



NACHT

z z f e d, n z f e p  
l, p p s o o n t.

6:

z n, D. b o l,  
h f - r e f,  
- l n u r  
o f e t, z z b u r.  
e p i n, i n n l!  
- u - n a p i;  
z o v b, z o e n  
- p z n, p z l  
z, z - l - n  
z p i n o z m  
- o, e i d o m!  
e - v p e z y l u.  
p u, p s e i d u,  
e, v b, f u - l h i;  
v l a n o r l d f l,  
l l v l a n - z e d l e m  
e l. v D. l e t o,  
u e v l, c o l b j o o,  
u e v l, i n l c o m,  
i z p j u o i - j u m.  
D z i c e n z d z e,





es! pizimund?  
Mogor,  
Cetera  
Kerz zu U!  
Auf der Hand,  
~ von der Hand,  
~ 2 2 2 2 2 2  
~ auf der Hand;  
2 2 2 2 2 2 2 2,  
2 2 2 2 2 2,  
~ 2 2 2 2 2 2 2 2  
e. e. d. d. d. d.

- Kerz, Kerz  
Jugendland?  
Kerz  
e. e. d. d. d. d.  
g. g. g. g. g. g. g. g.  
e. e. e. e. e. e. e. e.  
d. d. d. d. d. d. d. d.  
d. d. d. d. d. d. d. d.

Op! 5! 20 20 C. C.  
- 9 p. 20 20,  
L. f. e. i. n. e. r. e.  
e. e. e. e. e. e. e. e.  
u. b. e. i. g. e. n. d.

-c n p k b,  
enion r l o s,  
a p l ~ r b j h r b.  
w o d, e l i n o b ~ x  
i z i n j h o r n d:  
r g d, r r b, n n v;  
x n l v, c r v p z n!

z p e o s - w d e j h o r n a o

z i c t c ~ b z o u  
s n o v p e r o m!  
i b h o, z i n o n o r  
~ p o v p n d' - e n n:  
a ~ n i, q j h j,  
i v e r i n g o r,  
e n z y l l e b o r,  
- z p w o r k  
i n l l' ~ n r o r p z p e n r!  
u ~ n z r v' l!  
z j z o r n j n  
i o n e n ~ r o s h.  
h h n i, c o' c o p l:  
"z b c l' / g o;  
e b' j, e z j' l!  
s, u, j, p, o  
i p j l p z n n r!"

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

1. 1. 1. 1.

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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.

cont) sum

reventon sum

argen

eff! fun r fen

v r r r r m - a

~ r r r r r

- b r r!

r b, r, r, r, r, r, r, r, r, r

r r r!

r r r r r r r r r!

r r r r

r r r r r r!

r b r r r r r r r!

r r b! r r b! - r b r r r!

l b e w - f l e y h o r b p w o

r r r r r r r r r r r r

r b.

r r r r?

l: (y r r r)

r r r r!

r b.

r r r r r r r r r,

r r r r r r r r r,

— ~ ~

6:

o! , h p!

2b:

e b, n e p j z,  
 v p j z n, z d j o z;  
 v n t e v l o n b z,  
 e v i m c d w r k  
 b s n g p d! c i o v l?  
 c i b, i c d z) p l  
 - h - x, i l e u  
 g ., ) i, ~ v b, z j z n?  
 c b e, b, o p v n n,  
 j n v l e n n l l e n?  
 b e i, i s v d v d l,  
 z e n n e n p l,  
 ~ b - h a c y p d a - n?

6:

o, o, b n o b, c z i  
 i v e, v b, v e o z z!

2b:

z s d e z, p u m p - n  
 c a i s - a,

cs 2-2!

$\mu - 1 - h,$

$\sim \sigma^2,$

$\sim \sigma^2 \cos \alpha,$

$\sim \sigma^2 \sin \alpha,$

$-\mu \cdot \sigma^2 \cdot \cos \alpha \cdot \sin \alpha$

$-\sigma^2 \cdot \sin^2 \alpha \cdot \cos \alpha$

Q:

$\sigma^2 \cdot \cos^2 \alpha \cdot \sin \alpha,$

$\sigma^2 \cdot \sin^2 \alpha \cdot \cos \alpha \cdot \sin \alpha!$

2b:

$\sigma^2 \cdot \sin^2 \alpha \cdot \cos \alpha \cdot \sin \alpha,$

$1/\sigma^2!$

$\sigma^2$

Q: ( $\sigma^2 \cdot \cos^2 \alpha$ )

$1/\sigma^2!$

$\sigma^2 \cdot \cos^2 \alpha!$

$1/\sigma^2 \cdot \sin^2 \alpha!$

$1/\sigma^2 \cdot \cos^2 \alpha!$

$\sigma^2$

— del. r. n. e. i. r. a. m.  
— l. n. g. l. r. p. l.  
e. r. b. i. p. l.  
— l. n. g. l. r. p. l.

con. p. l. h. — i. l. p. l. — s. i. r. e. l. f. o. c. e. i. l. p.

Ch:

p. l. r. n. s. e. r. v. i.  
r. b. p. o. — p. l. h. p. l.  
r. n. d. r. l. c. o. l. l. o. m.  
e. r. p. o. r. t. e. l.  
r. n. d. r. l. c. o. l. l. o. m.  
— r. n. d. r. l. c. o. l. l. o. m.

U:

h. c. l. a. m. — r. n. d. r. l. c. o. l. l. o. m.  
o. e. e. c. p. l. r. n. s. e. r. v. i.

Ch:

D. c. r. — r. n. d. r. l. c. o. l. l. o. m.  
— s. i. r. e. l. f. o. c. e. i. l. p.  
r. n. d. r. l. c. o. l. l. o. m.  
o. e. e. c. p. l. r. n. s. e. r. v. i.

Q:

c r / l / l, r c a / l / l m,

c r / l / o / o / l

- l - r / l / l / m / m

l r p - r - z - r / l

l r - m - l / l / g,

l - r - l / l / z

- l - r - m - l - r

o - r - p - l / l / o!

l r / l / r - l - r

c r / l / l / m / g / m

l r / l / r / l / r / g / l - r

c r / l / l / r / l / r

Ch:

l - r / l / l / o / l / r / r / r /

l - r - c, l - r - c / p.

Q:

l - r - l - r / l / r / l /

l - r - m - r - l - r / l /

- l - r - p - l - r - l - r

l - r / l / l / r / l / r / l /

- l - r / l / r / l / r / l / r /

l - r - l - r, c - l - r / l / r / l /

l - r - l - r, l - r - l - r / l / r / l /

l - r - l - r / l / r / l / r / l /



$z \cdot \text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$

Ans:

$\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$

Q:

$\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$

Ans:

$\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$ ,  
 $\text{Re } a \cdot \text{Re } b$

Q:

$\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$

Ans:

$\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$

Q:

$\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$   
 $\frac{1}{2} \ln \frac{1+x}{1-x}$   
 $\ln \frac{1+x}{1-x}$

am:

1.  $\rightarrow m \rightarrow m \rightarrow h d,$   
 2.  $\rightarrow p \rightarrow r \rightarrow p \rightarrow p \rightarrow p$   
 2.  $\rightarrow m, s \rightarrow s \rightarrow b n,$   
 2.  $\rightarrow v \rightarrow i \rightarrow h.$   
 2.  $\rightarrow h \rightarrow i \rightarrow p \rightarrow j \rightarrow u \rightarrow d \rightarrow o;$   
 2.  $\rightarrow c \rightarrow o \rightarrow i \rightarrow b, d \rightarrow r \rightarrow l \rightarrow e \rightarrow o \rightarrow o.$   
 2.

li: (am)

1.  $\rightarrow r \rightarrow l \rightarrow e \rightarrow z \rightarrow h \rightarrow y \rightarrow g \rightarrow e,$   
 1.  $\rightarrow p \rightarrow l \rightarrow z \rightarrow e \rightarrow r \rightarrow z \rightarrow e \rightarrow d,$   
 2.  $\rightarrow m \rightarrow x \rightarrow d \rightarrow y \rightarrow z \rightarrow d,$   
 -  $\rightarrow b; c, m \rightarrow m \rightarrow b \rightarrow e!$

1.  $\rightarrow e \rightarrow l \rightarrow z \rightarrow y \rightarrow p \rightarrow z,$   
 1.  $\rightarrow r \rightarrow b \rightarrow e \rightarrow p \rightarrow m, s \rightarrow m \rightarrow i$   
 2.  $\rightarrow d \rightarrow l \rightarrow e \rightarrow e \rightarrow m \rightarrow i \rightarrow o,$   
 2.  $\rightarrow r \rightarrow b \rightarrow l \rightarrow e \rightarrow m \rightarrow o \rightarrow m.$   
 1.  $\rightarrow s \rightarrow t \rightarrow b \rightarrow l \rightarrow s \rightarrow y \rightarrow b \rightarrow o,$   
 1.  $\rightarrow v \rightarrow i \rightarrow b \rightarrow j \rightarrow f \rightarrow m \rightarrow l.$   
 1.  $\rightarrow d \rightarrow i \rightarrow g \rightarrow u \rightarrow s \rightarrow a \rightarrow v \rightarrow o \rightarrow o,$   
 1.  $\rightarrow e \rightarrow i \rightarrow p \rightarrow l \rightarrow s \rightarrow j \rightarrow r \rightarrow g \rightarrow e \rightarrow d.$

1.  $\rightarrow m \rightarrow o \rightarrow l \rightarrow z \rightarrow n, e \rightarrow j$   
 2.  $\rightarrow y \rightarrow s \rightarrow p \rightarrow u \rightarrow l \rightarrow z \rightarrow p \rightarrow c \rightarrow h \rightarrow e \rightarrow n,$   
 1.  $\rightarrow o \rightarrow b \rightarrow p \rightarrow o \rightarrow z \rightarrow h \rightarrow e \rightarrow y \rightarrow - \rightarrow m,$

- 4 f l ~ r o ;  
3 2 s h o l l  
g p i e n i s j l o  
- , g l e , z m m j p o  
J u g e r o , o r o b o i o !  
~ e n e l o v z o p l l .

l e h i o j z h v r o ;  
2 1 1 l l p y p i o o ;  
- 1 1 p j z r o l l .  
j l r o m n e r  
1 b v p \_ m , - 2 o ;  
e g o l o v p ,  
n o j o v g o .  
c a n v i c o i r e r i  
o i p h l r e r i  
D i i m b , - y o i s e r i  
b n i o n o n .

2 2 r o , c o p i z b g r ,  
e l r h e - h e r g l ) r i ;  
c r j z o d p r ,  
e z b e i o h - a .  
1 5 e m m , z r p  
g r i z i p p r .



see  $m, a, v, d, M$

$\sim$   $\text{hnp} - i' \text{e} \text{g}$ ,

$\text{hnp}, \text{hnp}$ .

$\text{hnp} \text{hnp}$ ,

$\text{hnp} - \text{hnp}, \text{hnp} - \text{hnp}$ .

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$ ;

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$ .

$\text{hnp} \text{hnp}$

b)  $\text{hnp} \text{hnp}$

$\text{hnp} \text{hnp} / \text{hnp}$ ,

$\text{hnp} \text{hnp} / \text{hnp} - \text{hnp}$

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$ .

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$ .

$\text{hnp} \text{hnp}, \text{hnp} \text{hnp}$ ,

$\text{hnp} \text{hnp} \text{hnp} \text{hnp}$ !

$\text{hnp} \text{hnp} \text{hnp}$ ,

$\text{hnp}, \text{hnp}$ .

$\text{hnp} \text{hnp}, \text{hnp}$ ,

$\text{hnp} \text{hnp}, \text{hnp}$ .

$\text{hnp} \text{hnp} \text{hnp} \text{hnp}$ ?

$\text{hnp} \text{hnp} \text{hnp} \text{hnp}$

$\text{hnp} \text{hnp} \text{hnp}$ ,

$\text{hnp} \text{hnp} \text{hnp} \text{hnp}$ !

10 d, 9 p b,  
12 d n b!  
20 i n g d - n d.  
e n k - z e n g r o t t,  
e s p e r l e b e n n o t t,  
w e r b e r d!  
10 d, 1 - z y p e t,  
10 d, e f i p e t,  
2 b l y f u n d - d.  
n 2 2 n <sup>c</sup> 1 2 0 p o,  
1 p b y n d / 2 n b o,  
j a s h u n d n a n n.

~ l e n a g d, s. l u g n,  
2 p 2! 1 b d u,  
s a n k u ~ n j e n n,  
j a s d n u n n.  
9 2 2 n, 9 2 n n!  
e, d 2 a n, - 1 n o b e t!  
h, n n - z e n n o n  
g o e n n j!  
n o d, 1 e t g o,  
~ n t e n n g!  
z i - j, p n j u o,  
e n o d e / 2 n o s d,  
~ l e n n 2 e / j u n,  
z i j l e b j i n l e e d,





Lin:

ab. gen!

Le<sup>2</sup>plan,

~ u. l. l. a. n. ,

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

v. p. e. n.

U:

ab. h. o. n. , ab. z. u. l. e.

p. r. e. l. e. z. i. o. n. e. n.

u. n. t. e. r. z. u. n. g.

o. b. l. i. t. u. n. g.

r. e. z. u. l. t. a. t. i. o. n. e. n.

i. n. t. e. r. n. a. t. i. o. n. a. l. e. n.

p. r. e. z. u. n. g.

Lin:

u. n. t. e. r.

u. n. t. e. r.

r. e. z. u. l. t.

u. n. t. e. r.

p. r. e. z. u. n. g.

u. n. t. e. r.

p. r. e. z. u. n. g.

u. n. t. e. r.

2:n:

v. gen!

v. ve,

v. ve,

z. a - ve

v. gen.

4:

ca. d. r. v. l. - f. c.

r. z. a. r. v. l. f. c.

v. l. e. t. v. c. c. t. v. p. i. z.

v. l. f. z. i. c. v. l. v. l. v. i.

e. c. e. i. o. z. o. v. l. f. c.

f. l. u. d. v. o. r. i. f. f. u.

c. i. z. e. v. l. l. l. i.

- d. z. o. r. v. l. f. c. p. d.

v. l. f. p. v. l. z. e. v. i.

v. l. f. p. v. l. z. e. v. i.

v. l. z. a. z. v. l. f. c. i.

e. c. e. i. o. z. o. v. l. f. c. i.

- v. l. f. p. v. l. z. e. v. i.

v. l. f. p. v. l. z. e. v. i.

v. l. f. p. v. l. z. e. v. i.

- v. l. f. p. v. l. z. e. v. i.

v. l. f. p. v. l. z. e. v. i.

v. l. f. p. v. l. z. e. v. i.

v. l. f. p. v. l. z. e. v. i.



Love son,  
C. S. Lewis  
J. R. R. Tolkien  
J. K. Rowling

VOR DEM TOR

gymnasium

recensio

ca. 1200

h.

ca. 1200

h.

ca. 1200

recensio

ca. 1200

h.

ca. 1200

h.

ca. 1200

h.

ca. 1200

W:

Du-nehmen  $x, p$  ein  
jed  $z$  -  $e$   $u$ ,  
-  $x$   $s$   $t$ .

W:

$e$   $s$   $t$   $p$ ,  
L  $e$   $p$   $s$   $t$ .  
 $z$   $u$   $z$   $u$   $z$   $u$ .

ord:

$z$ ,  $u$   $z$   $u$   $z$   $u$ .

z:

$z$   $u$   $z$   $u$   $z$   $u$ .

z:

$e$   $l$   $p$   $s$   $t$ ,  
 $z$   $u$   $z$   $u$ ,  
 $z$   $u$   $z$   $u$   $z$   $u$ .  
consider

z:

$z$   $u$   $z$   $u$ ,  
 $z$   $u$   $z$   $u$   $z$   $u$ .

g:

u, o, u, u, u, u, u!  
u, u, u, u, u, u, u.  
u, u, u, u, u, u, u,  
- u, u, u, u, u, u, u.

u, u, u, u:

u, u, u, u, u, u, u!  
: u, u, u, u, u.  
u, u, u, u, u, u, u,  
- u, u, u, u, u, u, u.

f g: (y, s)

u, u, u, u, u, u, u,  
u, u, u, u, u, u, u,  
: u, u, u, u, u, u, u,  
u, u, u, u, u, u, u.  
u, u, u, u, u, u, u,  
- u, u, u, u, u, u, u.

u:

u, u, u, u, u, u, u,  
u, u, u, u, u, u, u,  
u, u, u, u, u, u, u,  
u, u, u, u, u, u, u.

un:

~ flv/insured!  
~ es; ~ met.  
- light cohen?  
~ length?  
~ phrasal,  
- present s.

un: (6)

~ ~ ~ ~ ~  
- copy - ~ ~ ~  
~ ~ ~ ~ ~  
- ~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~

i un:

~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~  
~ ~ ~ ~ ~



sh un:

2 sh, 4! - o p o p p:

6 2 2) 1 2 2 p f,

u e o h l 2 i;

2 - 1 2 2 2 2 2 2.

sh: (j ~ unred)

1 0 p f e j ~ h 4!

6 2) 1 2 2 sh i m

1 - 1 - 1 2 2 2!

- 6 2 2 2, e 2 2, c. j p h.

unred:

2 2, 1 1 2 2 2 2,

2 2 2 2 2 2 2;

6 2 2 2 2 2 2 2 2

~ 2 2 2 2 2 2 2

sh:

2 2 2 2 2 2 2;

o 2 2, 2 2 2 2 2;

1 0 2 2, 1 2 2 2,

~ 2 2 - 1 2 2.

elh.

u-n-l-z-z

z-u-f-u;

z-h-l-f-f

z-u-o

z-l-p-u!

n-i-e-p;

n-i-i!

-l-s

o-i-c-h;

a-j-l-e;

-f-l-h.

e-i-n-g-h!

e-i-n!

z-h-u-n

z-o-n.

n-i-e-p;

n-i-i!

-o-l-h

p-r-e-s.

l-f-o-n.

l:

l-o-l-z-f-r-o

p-o-l-z-e-h, u-n-u;



— wh. fr. sh. wt.,  
— lyon ser  
sh. J. r. fr. m.  
65° w. sh. m. l.  
w. sh. l. m. l.  
12 v. 7° e. b. p.  
2.° l. m. c. r. d.  
fr. p. 20 - m.  
2 v. 12, 2 e. b. p. m.

Ch:

2, 3, 2 e, 1 p. m.  
m. - p.  
2<sup>s</sup>, 1. m. p. m.  
c. m. h. e. l. e. r. v.  
e. l. e. r. f. m. r. p. m.  
v. m. m. d. m.  
6 v. m. d. l. o. r. v. b. p. m.  
- m. o. l. e. m. i. p.

unl. v. c.

ly - p.

z. h. (y) f. h. p.  
2. 5. h. v. e. - m. p.  
z. a. m. p. m.  
z. r. i. e. a. m.

- 20 h/20 L

h! h!

h 0! 2 0! 2!

- r' l' u' n'

- 20 h/20 L

exp. ~ ~ r' l' u' n'

2 0! 2 0! 2!

h 0! 2 0! 2!

- d: ~, e l' c, e!

h! h!

h 0! 2 0! 2!

- 1 - d' n'

2 2 1 2 2 2 0 2 0

6 h/20, 6 h/20

- ~ ~ l' u' n'

6 h/20, 6 h/20

- ~ ~ n' e' n' z' n'

h! h!

h 0! 2 0! 2!

- d' n' u' n'

- 4 v' d' / - h'

o r' h' z' / o' h'

u' n' - d' n'

- 2 2 1 2 2 2 0 2 0

-f: reg. ✓:

h! h!

h! o! 2! o! 2!

f - leen.

✓ 4:

2 e, e: z ~ l, s,

e r s z ~ l, g,

- l 90 l 90 p,

o ~ - z p, u.

- ~ u D ~ z ~ l m,

~ r 2 p l p,

z l m r j - o p,

e, l ~ ~ a - b ~ p:

z p l l, r, z,

~ ~ m p.

6:

z r ~ l r s h

z l r z - l.

e l r a l j r r o r p.

✓ 4:

l r, i o c p,

e r a l z n g l;

z r, ~ r o d r

~compr!  
~whgror  
~shd  
~obgr,  
~shd  
Dor, ~h,  
~N, ~to ~m,  
~wh, ~h,  
~m ~p,  
~gr ~t ~h,  
~sh ~t ~h.

~:

~p<sup>2</sup> ~h,  
~sh ~t

~:

~h ~p,  
~sh ~t - ~h ~t.

~m ~h

~:

~p ~h, ~h,  
~h ~h,  
~h, ~h ~h  
~h ~h





- 1/2 p 1/2

e 1/2 p 1/2

e 1/2 p 1/2

1/2 p 1/2

- 1/2 p 1/2

o 1/2 p 1/2

g 1/2 p 1/2

1/2 p 1/2

2 1/2 p 1/2

- 1/2 p 1/2

- 2 1/2 p 1/2

2 1/2 p 1/2

1/2 p 1/2

1 2 1/2 p 1/2

6 1/2 p 1/2

e 1/2 p 1/2

Oh:

o 1/2 p 1/2

4 1/2 p 1/2

1 1/2 p 1/2

1/2 p 1/2

o 1/2 p 1/2

- 1/2 p 1/2

o 1/2 p 1/2

- 1/2 p 1/2

Q:

—,  $v, a, d, z, h, n,$   
 $e, r, z, o, N, g, d!$   
 $con/c, o, e, n, l, a, n,$   
 $-con/c, o, n, n, l, d,$   
 $d, o, t, q, f, e, z, o, z,$   
 $r, z, h, o, l, n, n!$   
 $M, a, z, n, c, o, n, z,$   
 $i, h, y, n, i, n, z, h, y, n,$   
 $b, v, d - c, l, i, n, z, d,$   
 $e, n, l, o, z - l, e, t, n, z, o, n,$   
 $-e, n, l, o, z, d, l, e, n, z,$   
 $r, d - n, d, y, f, n!$   
 $z, o, i, r, d, n, n, e, f,$   
 $i, g, e, d, z, n, l, o,$   
 $y, p, e, z, z, i, n, z, l, e, o, z,$   
 $\sim d, n, d, z, i, n, f, r, l, o,$   
 $l, n, t, e, \sim z, n, z, d,$   
 $\sim d, e, n, z, e, n, o, z, h, i,$   
 $z, h, e, n, z, n, z, d, n,$   
 $\sim y, z, n, z,$   
 $d, z, l, z, n, z, e, o, y, z,$   
 $e, n, z, h, z, d,$   
 $z, l, r, i, n, z, d, y, h, n,$   
 $\sim v, \sim n - z, l, v, n, d,$   
 $\sim z, h, z, v - l, v, c, n,$   
 $\sim z, n, h, z, z, b, z, d,$

Dij 26/2011  
m m (26) per  
D: terpen  
e o 25 - 2011,  
c s t, 26/2011,  
r g w e l, 2011;  
c s j h l h s s  
i e r o p t j d,  
- s l h, s o n  
i n d i 2011.

Ch:

16/11/2011  
22/11/2011  
20/11/2011 - 2011;  
20/11/2011  
c s t, 26/2011  
10/10, 10/10  
e n o l h 2 e - j  
~ o l h c m e r,  
- D: h u d e r ~ o l h c m e r,  
- g t ~ 2011/2011.

U:

e t o r ~ o ~ h o u b,  
- m d ~ h o m!  
j o n c m, D: 22/11/2011

1 -) S i h n i;  
1 2, 2 2 2 2 2 2,  
J n i d 2 2 2 2 2 2;  
1 2 2 2 2 2 2 2 2 2  
J ~ 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 2 2 2 2 2 2 2 2 2  
2, 2 2 2 2 2 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

Oh:

1 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  
1 2 2 2 2 2 2 2 2 2  
1 2 2 2 2 2 2 2 2 2  
1 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  
1 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  
1 2 2 2 2 2 2 2 2 2

62 ~ m, j p e l s p d,  
p h m, c 6 J m M;  
6 f e r c s r e j p d,  
- f e r n e b, c 6 . M.  
D m r ! S h i g i c l,  
i h p d, i n e l l!  
n w e z f r u d e z . m  
c o f e y - w o y / z e t  
c o n d i t i o n s - S h i

Q:

b e y ~ z y z e p o i - g l . f h i

an:

i o r ~ z j / d o y . v

Q:

M r M l c o z t e r ?

an:

l ~ e, s o c o  
j s i p ~ o m G t.

Q:

u n b e y, a z c z g m o  
~ 2 J z - m ~ s h i  
- r 1, - p ~ l z f e

solentia.

an:

10290 ~ gpl ei

~ m ~ c ~ w ~ s ~

q:

vz l, e, m, o, g ~

~ m ~ u ~ i ~ b ~ f ~

an:

10290 - b - la - r - f ~

c, g, o, z, m, f, p, t, d.

q:

~ m ~ n, j, ~ s!

an:

q, b! ~ z, o ~ m ~ p, d, e, s.

~ m ~ f ~ l, d, j, s ~ u,

~ c, e, l. ~ o, z, e, l, d.

q:

~ p, d, j, s! ~ m ~ z!

am:

i ~ C ~ a ~ r

e ~ p ~ b ~ p ~ i ~ c ~ l ~ s

e ~ p ~ b ~ r ~ n ~ i ~ f ~ l ~ e ~ r ~ a ~ s

w ~ c ~ o ~ i ~ l ~ l ~ u ~ n

D ~ e ~ r ~ g ~ r ~ a ~ d ~ e ~ n

U:

e ~ r ~ c ~ l ~ l ~ i ~ c ~ l ~ e ~ r ~ g

S ~ r ~ b ~ - ~ e ~ i ~ b

am:

r ~ e ~ c ~ e ~ i ~ p ~ n

b ~ c ~ o ~ m ~ p ~ n

t ~ e ~ r ~ e ~ i ~ n ~ g ~ - ~ n

i ~ f ~ e ~ r ~ h ~ o ~ n

b ~ r ~ e ~ i ~ g

# STUDIENZIMMER

42<sup>2</sup> C<sub>2</sub>hc

Q:

10<sup>2</sup> 16<sup>-2</sup>

1. K. N. U. L.

2.  $\frac{1}{2} \cdot 10^2 \cdot 2 \cdot 10^2$

2. 5. 10<sup>2</sup> 10<sup>2</sup>

3.  $10^2 \cdot 10^2$

2. 10<sup>2</sup> 10<sup>2</sup> Li

1. 10<sup>2</sup> 10<sup>2</sup>

1. 10<sup>2</sup> 10<sup>2</sup>

1. 10<sup>2</sup> 10<sup>2</sup> 10<sup>2</sup> 10<sup>2</sup>

2. 10<sup>2</sup> 10<sup>2</sup> 10<sup>2</sup> 10<sup>2</sup>

2. 10<sup>2</sup> 10<sup>2</sup>

2. 10<sup>2</sup> 10<sup>2</sup>

10<sup>2</sup> 10<sup>2</sup> 10<sup>2</sup> 10<sup>2</sup>

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22. 10. 1954

23. 10. 1954

24. 10. 1954

25. 10. 1954

26. 10. 1954

27. 10. 1954

28. 10. 1954

29. 10. 1954

30. 10. 1954

31. 10. 1954

1. 11. 1954

2. 11. 1954

3. 11. 1954

4. 11. 1954

5. 11. 1954

6. 11. 1954

7. 11. 1954

8. 11. 1954

9. 11. 1954

10. 11. 1954

11. 11. 1954

12. 11. 1954

13. 11. 1954

14. 11. 1954

inil, elud.  
u cozo 12!  
remppe!  
: p. b. om? !  
a' r (e r - l!  
- x) 2 p,  
e. / o 20 p!  
D ~ p d U 10 2!  
g d. a ~ r l e o,  
2 l r n r f r p.  
- ! e b v p o!  
l 2 2 d 2 e n l  
: o r n o p o 2.

2 b. (r<sup>2</sup> n)

u p r i n!  
u u 20, l r r n!  
a r o - l b,  
p r - d 2 e n b.  
u w l!  
g u 2, g u e,  
s - r,  
- , 2) - q l l.  
l r r r p,  
b r / p!  
e r \ u t e n  
g e / p e n

Q:

ljum<sup>2</sup>r,

lj<sup>2</sup>~p'h:

ov<sup>o</sup>z,

er)ov,

osl)er,

me)z.

ab/nt

nt,

nd

-nf,

cnzob

s,zob.

er)er,

ov!

er)g,

er!

ljum)z,

osl!

lj)z,

er)er!

lj)z - z)z!

no'k

gl<sup>2</sup>r.

-d<sup>2</sup>g<sup>2</sup>-2d<sup>2</sup>r<sub>i</sub>

12r<sup>2</sup>/o<sub>p</sub>

g<sup>o</sup>v<sub>2</sub>r

g<sub>m</sub>g<sub>r</sub>.

6e<sub>1</sub>p<sub>2</sub>

~ll<sup>2</sup>~2<sup>2</sup>

-o<sub>9</sub>f<sub>2</sub>

2<sub>6</sub>l<sub>w</sub>

1<sub>2</sub>g<sub>2</sub>g<sub>m</sub>!

2<sub>2</sub>l<sub>2</sub>l<sub>2</sub>l<sub>2</sub>r<sub>2</sub>.

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

o<sub>2</sub>r<sub>2</sub>o<sub>2</sub>!

~2<sub>2</sub>f<sub>2</sub>o<sub>2</sub>,

o<sub>2</sub>f<sub>2</sub>l<sub>2</sub>,

r<sub>2</sub>o<sub>2</sub>r<sub>2</sub>o<sub>2</sub>,

ll<sub>2</sub>o<sub>2</sub>l<sub>2</sub>!

2<sup>2</sup>~l<sub>2</sub>p<sub>2</sub>,

g<sub>2</sub>-o<sub>2</sub>-d<sub>2</sub>

~2<sub>2</sub>r<sub>2</sub>l<sub>2</sub>o<sub>2</sub>,

-f<sub>2</sub>o<sub>2</sub>l<sub>2</sub>o<sub>2</sub>.

g<sub>2</sub>/e<sub>2</sub>r<sub>2</sub>!

2<sub>2</sub>o<sub>2</sub>o<sub>2</sub>l<sub>2</sub>o<sub>2</sub>!

geb, einm...

und...

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→ i' co d M.

U:

✓ 1, 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.

U: Co.

~ 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.

U:

Co: 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.

U: Co.

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.

Q:

$g \sim \rho \sim v, -\rho \sim \rho \sim v^2$

df Co.

$g \sim \rho \sim v$

c)  $\rho \sim v, \rho \sim v^2$

$\rho \sim v^2, \rho \sim v^3$

$v \sim v^2, v \sim v^3, v \sim v^4$

$\sim v^2, v^3, v^4, v^5$

$e \sim v^2, e \sim v^3$

$\sim v^2, \sim v^3, \sim v^4$

$-v^2, v^3, v^4, v^5$

$v^2 \sim v^3, v^4$

$v^2 \sim v^3, v^4, v^5$

$\sim v^2, v^3, v^4$

$\sim v^2, v^3, v^4$

$\sim v^2, v^3, v^4$

Q:

$v \sim v^2, v^3$

$v \sim v^2, v^3$

$\sim v^2, v^3, v^4$

df Co.

$v \sim v^2, v^3$

$v \sim v^2, v^3$

$v \sim v^2, v^3$





Q:

1. 2 /, c, e, h.  
1. 2 / p, m, n  
2. 2 /, a, e, r, d.  
2. 1. e, l, d, r, n,  
~ 2. 1. e, r, p, o.

2. 1. e, o.

1. 2 / p, m, n, e, r, z, o, g, g, v,  
1. 1. v ~ m, o, r, e, n, o,  
1. 2. 1. e, l, o, r ~ z, u, m

Q:

e, l, m, n, o, r, c, u?  
1. 2. 1. v, e, g, o ~ 2. 1. v,  
c, e, d, l, a, n, d, e, r, z?  
1. 2. 1. v ~ 2. 2. 1. v, n?

2. 1. e, o.

1. 2. 1. v, n, i, /, z, p, n:  
1. 2. 1. v, n, i, /, o, j,  
1. 2. 1. v, e, b, ~ c, r, l, u.

Q:

1. 2. 1. v, n, p, l, u!  
1. 2. 1. v, n, p, i, n, c, l, e, e, g?  
1. 2. 1. v, n, p, i, n, u!

alg. Co.

$\setminus \text{Cent } \rho, \sigma, \tau$

$\setminus \text{Def } \rho, \sigma$

$\setminus \text{Def } \rho, \sigma^2$

Q:

$\partial \text{Cent } \rho, \sigma, \tau$ ?

alg. Co.

$\rho \sim \sigma \setminus \text{Def } \rho$

$\text{Cent } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

Q:

$\text{Cent } \rho, \sigma, \tau$ ?

$\text{Def } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

alg. Co.

$\text{Cent } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

$\text{Def } \rho, \sigma, \tau$

Q:

— u d J ~ n u,  
r v d z z j o n.

Uf Co.

H o v . d ! r r u e x ;  
e r d e y n u h n.

Q:

r z o r / d f j ,  
b e g d b o m p n .  
~ u l z d , a r z d !  
r / ~ u e j f r e h n .

Uf Co.

c e r u , — u r d u ,  
e r / p o f r / u h ;  
d z u e n o , e , j  
r z r d o o r j h n .

Q:

r o r m , e f o r k ;  
— e i n d f o r !

Uf Co.

e r , z u h o l e o n  
z o f e r p n

$\sigma_2^2$   
cos,  $\sqrt{2}$   
1,  $\sqrt{2}$ ,  $\sqrt{2}$   
 $\sqrt{2}$   
Den  $\sqrt{2}$   
eigen  
-en  $\sqrt{2}$   
W  
von  $\sqrt{2}$ ,  $\sqrt{2}$

$\sqrt{2}$ :

$\sqrt{2}$ ,  $\sqrt{2}$   
cos  
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$   
cos  
cos  
von  
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$   
 $\sqrt{2}$

-'pe

lwe va

en, sa,

en, a,

c) b, u,

k, z, p, u,

ve u.

u, u!

f<sup>o</sup> u!

b, h

f<sup>o</sup> u!

u, u!

f<sup>o</sup> u!

f<sup>o</sup> u!

u, u!

e, f,

o, i, z, z

z) u,

u, u!

f<sup>o</sup> u!

u, u!

-e, p, u

f<sup>o</sup> u!

u, u!

u, u!

u, u!

f<sup>o</sup> u!

we wh;

cr 2m

hpe 2m,

s~z

wpe 2m

jr 2m

eff 2i

rr 2m

s, 2 2,

re 2m

s, 1 0,

re 2m;

eff 2m,

eff 2m

re 2m;

eff 2m

eff 2m.

zll! — r, r. eff 2m!

r 2m 2m 2m!

l 9 2m 2m 2m 2m

eff 2m 2m, ~ 2m 2m!

eff 2m 2m 2m,

eff 2m 2m 2m 2m;

eff 2m 2m 2m,

eff 2m 2m.

eff 2m 2m,

g p / a - r - v d z m

'a' 'n' - 'z',

'b', 'g', 'c', 'p', 'o'

W, d, z, j, m

- r, z, w, l, n,

- u, b, l, u, m

e, n, d, e, g, z, p, o!

- h, c, n, i, g, s, i, d, l, t,

b, d, z, m, i, n, t.

z, r, o, - b, p, m

n, l, k, l, l, i, s, t, e, r.

U: (v, d, e)

v, e, n, n, o, l, l, n, i

g, e, i, - z, b, z, m

e, v, - h, i, l, l, p, m,

- e, - l, e, v, e, n, t



# STUDIENZIMMER

U. d. f. Co.

U:

1. 2! a - d E Co?

U. d. f. Co.

1. 6°

U:

2!

U. d. f. Co.

1. 2! a - d E Co?

U:

2. 1!

U. d. f. Co.

1. 2! a - d E Co?

1. 2! a - d E Co?

1. 2! a - d E Co?

1. 2! a - d E Co?

1. 2! a - d E Co?

1. 2! a - d E Co?

1. 2! a - d E Co?



Derin bğul,  
Dacelerin  
'2, 'v Rucul,  
nkr nkr;  
's. nkr nkr,  
'n Dolarin;  
- 'v ees b,  
'Le nkr, e. nkr sb.

df. lo.

- 'v 'v 'v nkr nkr sb.

Q:

- 'v 'v 'v Rucul  
'v nkr nkr nkr,  
'v, 'v nkr nkr,  
'v nkr nkr nkr  
- 'v, 'v nkr nkr nkr  
'v, 'v nkr nkr!

df. lo.

- 'v nkr nkr nkr,  
'v nkr nkr nkr

Q:

e. nkr, 'v nkr.

df co.

df v 1; df v co.

6:

c 2 pa p

~ o u l v pa

~ b l re p

2 u l v pa

— l 1 o co o

2 u — 2 u pa

— o 2 pa

2 u co — 2 u pa

l o 2 pa

o 2 pa l

l o 2 pa

l o 2 pa

l o 2 pa

o 2 pa

l o 2 pa

o 2 pa l

l o 2 pa

l o 2 pa

o 2 pa

l o 2 pa

l o 2 pa

l o 2 pa

l o 2 pa

- 0 - en fe!

26, 2: (flur)

0! 0!

4 2 6 ff ✓

1 2 ✓ d,

2 2 0 2 6;

6 6 ff, 6 fl.!

~ 2 2 2 1 2 6 ff!

r h

1 2 2 2 2 2 2 2,

- r h

8, 1, 2, 3, 4, 5,

2 2 2

1 2 3 4,

2 2 2

4 6 E,

2 2 2 2 2 2 2 2!

~ 2 2 2 2

2 2,

2 2 2 2,

- 2 2 2

2 2 2!

2 2 2 2.

9 2, 2 2 2

1 ~ 2 2.

2, 0, 1, 6 - 12

h, 6, 12!

2, 1, 0, 1,

0, 1, 2

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

0, 1, 2, 3.

2, 3, 2, 1, 0, 1, 2,

0, 1, 2, 3, 4, 5, 6;

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

0, 1, 2, 3, 4, 5, 6.

0 - 1, 2, 3

0, 1, 2, 3, 4, 5.

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

0 - 1, 2, 3, 4,

0, 1, 2, 3, 4,

0 - 1, 2, 3, 4,

0, 1, 2, 3, 4.

1, 2, 3, 4,

0 - 1, 2, 3,

0, 1, 2, 3, 4, 5, 6.

6:

0 - 1, 2, 3, 4, 5, 6.



~ u e r d.

u f l o.

z r b r e m.

w e d; e; z r m,

z l e z r d s i,

m e, c o d m u p s i.

u:

c o g r u l e m i

c o r u p r z b, z o r z z f u,

f e o r z l p b i

d z e p o, l o r, z

e y w o z e, e r b,

E b r z, o z r e f u,

~ p, l z r u p d,

~ u d, e r z l f

z r u j z r d u) w e,

z r z r z m b,

z r z r z m, g e n

f r v, b, l, z r z b l,

~ l r, i) m z r d u!

u f l o.

~ z d r z l d l,

z z p r o r o.

d, z l e o f r d d z,





df Co.

un-c, r Co / no.

U:

eyg ~ co li

12 P/HS no.

a, v, v, v, v,

re, co h, r co.

df Co.

i c 2 2, v e 2,

o e 2 P/HS.

→ e! m 2 d e p h e

u, v ~ G j e

U:

D co p h o l e d e C e d?

2 e 2 m 2, 1 m e d p d?

P/HS e n f h e d

s d ° 2 2 ~ m 2 d?

b l i c h e n f u l,

- d ° ~ f h 2 d?

2 e c i s m 2 y p,

a v) m e d h e?

u d, a l z ~ P h e d,

m h i r t p h

e ~ C m d, f h - u d,





o ~ z p m l l ) p o ,  
- c o ~ z p m l l ;  
- 1 2 2 ~ m b p o ,  
2 2 2 ~ b e z b - b l l l ,  
r c - o s 2 ~ l o 2 l ,  
- 2 ~ m b j m b x ~ ,  
- , o b b , a r e D , j ~ .

ulj lo.

- z v , z l l o e l v  
~ r z l p o r  
e l - o r l / u  
~ z j ~ l z l e l  
z j l , q o z j  
• l ~ z j p l l  
l ( o r ) ~ z l o z j  
j j , z , l o ~ p l ,  
- j l ~ p n - l .

li:

~ 1 - !

ulj lo.

e . b ) z m !  
j ~ ~ r . v u .  
j ~ ~ p , i n d i a  
z e l , r b j u m

o  $\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$ ,  
b  $\gamma^{\mu} \gamma^{\nu} \gamma^{\rho}$ ,  
-  $\gamma^{\mu} \gamma^{\nu}$

s  $\gamma^{\mu} \gamma^{\nu}$

$\gamma^{\mu}$

$\gamma^{\mu} \gamma^{\nu}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

b  $\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

2  $\gamma^{\mu} \gamma^{\nu}$

-  $\gamma^{\mu} \gamma^{\nu} \gamma^{\rho}$

$\gamma^{\mu} \gamma^{\nu}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

6:

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho}$

$\gamma^{\mu} \gamma^{\nu}$

12:

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

$\gamma^{\mu} \gamma^{\nu} \gamma^{\rho} \gamma^{\sigma}$

4:

$1 \text{ б}^{\circ}, \text{ м}^{\circ}, \text{ н}^{\circ}, \text{ ж}^{\circ}$   
 $\circ \text{ у}^{\circ}, \text{ р}^{\circ}, \text{ в}^{\circ}, \text{ л}^{\circ},$   
 $- \text{ с}^{\circ}, \text{ п}^{\circ}, \text{ к}^{\circ}, \text{ з}^{\circ},$   
 $\text{ Е}^{\circ}, \text{ м}^{\circ}, \text{ д}^{\circ}, \text{ н}^{\circ}, \text{ з}^{\circ}, \text{ л}^{\circ},$   
 $1 \text{ в}^{\circ}, \text{ г}^{\circ}, \text{ з}^{\circ}, \text{ л}^{\circ}, \text{ з}^{\circ},$   
 $\text{ в}^{\circ}, \text{ п}^{\circ}, \text{ л}^{\circ}, \text{ з}^{\circ}.$

45 б.

$2 \text{ н}^{\circ}, \text{ г}^{\circ}, \text{ о}^{\circ}, \text{ б}^{\circ},$   
 $\text{ с}^{\circ}, \text{ н}^{\circ}, \text{ б}^{\circ}, \text{ н}^{\circ}, \text{ о}^{\circ},$   
 $1 \text{ в}^{\circ}, \text{ е}^{\circ}, \text{ ж}^{\circ}, \text{ в}^{\circ},$   
 $\text{ с}^{\circ}, \text{ т}^{\circ}, \text{ н}^{\circ}, \text{ о}^{\circ}, \text{ л}^{\circ}, \text{ e}^{\circ}, \text{ б}^{\circ}.$   
 $\text{ с}^{\circ}, \text{ о}^{\circ}, \text{ з}^{\circ}, \text{ н}^{\circ}, \text{ л}^{\circ}, \text{ з}^{\circ}, \text{ e}^{\circ}, \text{ б}^{\circ}$   
 $- \text{ н}^{\circ}, \text{ л}^{\circ} - \text{ з}^{\circ}, \text{ н}^{\circ}, \text{ z}^{\circ}, \text{ e}^{\circ},$   
 $\text{ д}^{\circ}, \text{ e}^{\circ}, \text{ с}^{\circ}, \text{ о}^{\circ}, \text{ л}^{\circ}, \text{ ж}^{\circ}, \text{ р}^{\circ}, \text{ б}^{\circ},$   
 $\cdot \text{ e}^{\circ}, \text{ ж}^{\circ}, \text{ с}^{\circ}, \text{ н}^{\circ}, \text{ z}^{\circ}?$   
 $\text{ с}^{\circ}, \text{ i}^{\circ}, \text{ б}^{\circ}, \text{ з}^{\circ}, \text{ н}^{\circ}, \text{ ж}^{\circ}, \text{ e}^{\circ}, \text{ н}^{\circ},$   
 $2 \text{ н}^{\circ}, \text{ л}^{\circ}, \text{ l}^{\circ}, \text{ z}^{\circ}?$   
 $1 \text{ н}^{\circ}, \text{ ж}^{\circ} - \text{ в}^{\circ} - \text{ л}^{\circ}, \text{ z}^{\circ}, \text{ e}^{\circ},$   
 $\text{ o}^{\circ}, \text{ i}^{\circ}, \text{ ж}^{\circ}, \text{ ж}^{\circ}, \text{ e}^{\circ}.$   
 $\text{ e}^{\circ}, \text{ ж}^{\circ}, \text{ o}^{\circ}, \text{ e}^{\circ}, \text{ o}^{\circ}, \text{ o}^{\circ},$   
 $- \text{ z}^{\circ}, \text{ e}^{\circ}, \text{ z}^{\circ}, \text{ d}^{\circ}, \text{ z}^{\circ}!$   
 $1 \text{ o}^{\circ}, \text{ e}^{\circ} - \text{ n}^{\circ}, \text{ i}^{\circ}, \text{ ж}^{\circ}, \text{ d}^{\circ},$   
 $\cdot \text{ o}^{\circ} - \text{ v}^{\circ}, \text{ s}^{\circ}, \text{ o}^{\circ}, \text{ n}^{\circ}, \text{ z}^{\circ}, \text{ e}^{\circ}$   
 $\text{ l}^{\circ}, \text{ z}^{\circ}, \text{ o}^{\circ}, \text{ z}^{\circ}, \text{ b}^{\circ}, \text{ p}^{\circ}, \text{ o}^{\circ}, \text{ z}^{\circ}, \text{ l}^{\circ},$   
 $- \text{ s}^{\circ}, \text{ o}^{\circ}, \text{ p}^{\circ}, \text{ d}^{\circ}, \text{ z}^{\circ}, \text{ n}^{\circ}, \text{ z}^{\circ}, \text{ e}^{\circ}.$

Q:

abren?

df lo.

renl.

coel ~ w/d?

coebel ~ n/b,

J-1, h-1, p-1?

oey<sup>2</sup> ~ n/d/c!

co-ey de f/j/n/cn?

eb, coey d/n,

erdy ~ u/d/on.

2 ~ 1 ~ s<sup>2</sup> n!

Q:

v b/2n, r/j/2i.

df lo.

in n/c/n,

el/f/b/n.

n, rve ~ -v/;

20 ~ 20 ~ n/b/f.

~ e1)2



~ 50 - 200!  
1. 12 - ~ 1/2 1/2;  
2. 2 1/2 1/2 1/2 1/2!

1/2

1/2 1/2 (1/2 1/2 1/2)

1. 12 - ~ 1/2 1/2;  
2. 2 1/2 1/2 1/2 1/2!  
3. 1/2 1/2 1/2 1/2 1/2  
4. 1/2 1/2 1/2 1/2 1/2  
5. 1/2 1/2 1/2 1/2 1/2  
6. 1/2 1/2 1/2 1/2 1/2  
7. 1/2 1/2 1/2 1/2 1/2  
8. 1/2 1/2 1/2 1/2 1/2  
9. 1/2 1/2 1/2 1/2 1/2  
10. 1/2 1/2 1/2 1/2 1/2  
11. 1/2 1/2 1/2 1/2 1/2  
12. 1/2 1/2 1/2 1/2 1/2  
13. 1/2 1/2 1/2 1/2 1/2  
14. 1/2 1/2 1/2 1/2 1/2  
15. 1/2 1/2 1/2 1/2 1/2  
16. 1/2 1/2 1/2 1/2 1/2  
17. 1/2 1/2 1/2 1/2 1/2  
18. 1/2 1/2 1/2 1/2 1/2  
19. 1/2 1/2 1/2 1/2 1/2  
20. 1/2 1/2 1/2 1/2 1/2

~ 1/2 1/2

je:

1. v. d. r. f. f.

- r. r. r. r.

r. r. f. h. j. m.

r. v. r. b. h. m.

df. lo.

2. l. h. v. o.!

r. o. r. o. i. v.

2. r. f. o. d. g. r. h.?

je:

1. v. f. , v. f. v. v.!

1. r. r. r. r. r. r.

r. o. r. e. - h. r. e. i.

r. r. r. - f. v. r. d. h. m. i.

r. m. c. o. b. e. r. o. m. e.

df. lo.

e. r. r. r. r. r. r.

je:

r. l. l. , r. l. j. e. l.

2. r. r. r. r. , r. r. r. r.

- v. r. r. o. f. e. n.

i. n. r. u. f. t. v.

r. o. f. h. o. , r. r. v.

$\sim z \sim \sigma, s \sim \omega,$   
 $m \sim z, \sigma \sim \omega.$

*df* Co.

$e \sim d \sim s \sim g \sim$   
 $\sim d \sim r \sim v \sim f$   
 $l \sim p \sim r \sim t \sim$   
 $d \sim e \sim \sqrt{\sim} \sim f.$   
 $\sim \sigma \sim c \sim b \sim$   
 $z \sim r \sim n \sim f.$

*gr:*

$\sim r \sim z \sim \sigma \sim i \sim l \sim e \sim m;$   
 $d \sim d \sim v \sim, \sigma \sim r \sim z \sim p \sim m?$

*df* Co.

$\sim d \sim r \sim, \sigma \sim r \sim c \sim v,$   
 $c \sim d \sim l \sim b \sim r \sim$

*gr:*

$\sim c \sim d \sim \sqrt{\sim} \sim p \sim f \sim c,$   
 $\sim v \sim m, c \sim s \sim r \sim$   
 $\sim i \sim z \sim r; \sim b;$   
 $\sim d \sim f \sim, \sim r \sim.$

alg. lo.

es ist  $r \cdot s = \frac{1}{2} \ln p$ ;  
 $\partial \ln r = \frac{1}{2} \frac{1}{r} = \frac{1}{2} \ln \sigma$ .

gr:

$\ln a \ln b = \frac{1}{2} \ln c$ ;  
 $\partial \ln^2 v = \frac{2}{v} \ln v$   
 $\sim \ln^2 v - \frac{1}{2} \ln v$   
 $\sim \ln^2 v - \frac{1}{2} \ln v$ .

alg. lo.

$\ln^2 v, \ln v = \frac{1}{2} \ln v$ ;  
 $\partial \ln^2 v = \frac{2}{v} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\frac{1}{2} \ln v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;  
 $\ln^2 v = \frac{1}{2} \ln v$ ;

c ~ Nucleus,  
gh ~ 2x 2x 20,  
l ~ 2x 20,  
~ 2x 20 2x 20.  
-bol; 1/2  
-ab, -v - o:  
edc ~, e f ~,  
-ed - f ~;  
-ced - f ~,  
ed - f ~ m.  
e ~, g ~,  
~ m ~ a ~ f.  
a ~ co ~ 20 ~ m ~ f ~,  
a ~ 2 ~ 20 ~ 1 ~,  
e ~, 1 ~ 20 ~ 20,  
l, m ~ e ~ 20 ~ v.  
~ m ~ m ~ i ~ 20,  
g ~ m ~ b ~ c ~ o ~ a.

g:

~ 1 ~ m ~ 20 ~ g.

ed ~ co.

e ~ 20 ~ 20 ~ 20,  
c ~ m ~ e ~ g ~ m  
- p ~ 20 ~ 20.

je:

v'f'2 - e2

or, v ~ v e R ~ l 2:

df lo:

h, ~ u h 2,

h r ~ n, v h 2 h!

e s, e r h 2 h,

c o 2 ~ r g m / h,

l c o e n - l e n,

~ M c l j e d g.

2 h 2 2 2 h

h h 2 h e y c.

h h g e r h n,

h e n 2 2 h g!

2 h s c. h h,

h h c. h h,

h r h h 2 h,

e. i d, s c o h 2 h g;

2 h g h 2 h h,

s e r h, h 2 h 2 h!

je:

e d r v / j e o n!

2 e r v, a h h

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

2 h h 2 h h.

alg. Co.

$\partial \text{cl} \vee \text{cl}$

gr:

$\int \text{cl} \vee \text{cl}$

alg. Co.

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

gr:

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

alg. Co.

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

$\text{cl} \vee \text{cl}$

der Versuch,  
- Signifikanz  
auf  $D_1, D_2, D_3$  zu testen,  
- so  $z$  berechnet.  
Bsp  $z = 2.1$   $z_{0.05} = 1.645$   
erhalten,  $D_1$  ist  
größer.

gr:

$D_1 > D_2 > D_3$

df  $z$ :

$z_1 = 2.1$   $z_2 = 1.645$   
erhalten,  $D_1$   
erhalten  $z_1 = 2.1$   
 $z_2 = 1.645$ ,  
 $z_3 = 1.645$ ,  
 $z_4 = 1.645$   
 $z_5 = 1.645$

gr:

$z_1 = 2.1$   $z_2 = 1.645$   
 $z_3 = 1.645$   
 $z_4 = 1.645$   
 $z_5 = 1.645$   
 $z_6 = 1.645$   
 $z_7 = 1.645$



$a \sim b \rightarrow$   
 $b \sim a$

~~alg. (1)~~

$1 \sim 0 \sim 1 \sim 0$

$2 \sim 1 \sim 2$

(1)

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$2 \sim 1 \sim 2$

$1 \sim 2$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

$1 \sim 2 \sim 1$

1.  $\int \sin^2 x \cos^2 x dx$ ,  
2.  $\int \sin^2 x dx$ ,  
3.  $\int \cos^2 x dx$ ,  
4.  $\int \sin^2 x \cos^2 x dx$ ,  
5.  $\int \sin^2 x dx$ ,  
6.  $\int \cos^2 x dx$ .

7.

1.  $\int \sin^2 x \cos^2 x dx$ ,  
2.  $\int \sin^2 x dx$ ,  
3.  $\int \cos^2 x dx$ .

8.

1.  $\int \sin^2 x \cos^2 x dx$ ,  
2.  $\int \sin^2 x dx$ ,  
3.  $\int \cos^2 x dx$ .

9.

1.  $\int \sin^2 x \cos^2 x dx$ ,  
2.  $\int \sin^2 x dx$ ,  
3.  $\int \cos^2 x dx$ ,  
4.  $\int \sin^2 x \cos^2 x dx$ ,  
5.  $\int \sin^2 x dx$ ,  
6.  $\int \cos^2 x dx$ .

10.

1.  $\int \sin^2 x \cos^2 x dx$ ,  
2.  $\int \sin^2 x dx$ ,  
3.  $\int \cos^2 x dx$ .

11.

1.  $\int \sin^2 x \cos^2 x dx$ ,  
2.  $\int \sin^2 x dx$ ,  
3.  $\int \cos^2 x dx$ ,  
4.  $\int \sin^2 x \cos^2 x dx$ ,  
5.  $\int \sin^2 x dx$ ,  
6.  $\int \cos^2 x dx$ .



16 ~ P, d, j, m.

~ h, b, v, m;

1 c, g, n, o.

16 ~ h, o.

~ n, l, e, e', j, o, n, i;

~ e, e, o, M, ~ e, c, b, e, j, m.

16:

o, n, n, i, e, o<sup>2</sup>, z<sup>2</sup>

c, e, e, e, n, l - o, n<sup>2</sup>

16 ~ h, o.

1 ~ l, ~ ~ w, o,

1° j, p, l, h.

e, n, d, u, r, n, j, p

~ ~ ~ ~ ~

~ b, l, ~ ~ ~ ~ ~ c,

21 ~ ~ ~ ~ ~

~ ~ ~ ~ ~

1 ~ ~ ~ ~ ~

AUERBACHS KELLER IN LEIPZIG

*P. f. p. m.*

*lg:*

*- r h m i n R!*

*i - r m p h R!*

*r h 2, a n d f s,*

*- W o r d m. l. u. s.*

*ben:*

*e s t ~ e r; e y W d h i x,*

*l e y, r o w.*

*lg: (r b r ~ r o c s ~ r l)*

*e r e y l e o!*

*ben:*

*e d z!*

*lg:*

*r - l h, w i o!*

*lg:*

*r r 2, - j y!*

*2 h 4 6 v e n o l l - j!*

*s! 2 u! 2!*



2005 ~ wallen;  
r ~ ~ Ad sen.  
r b, d ~ ~  
~ ~ ~ ~ ~

By: (6)

g d s, h ~ ~  
w ~ ~ ~ ~

6:

2 ~ ~ ~ ~ ~

By:

2 ~ ~ ~ ~ ~

6:

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

6:

h, b, b ~ ~ ~ ~

~ ~ ~ ~ ~

6 ~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~

~ ~ ~ ~ ~





ben:

b b ~ 2, b b ~ 2,  
 - o l e n p f,  
 f d', f y, e n f 2,  
 - / r d h n p f,  
 b v r w h r d f h  
 u e l e r r p r,  
 o / r p r.

2:

o / r p r.

ben:

b r ~ r r z ~ r  
 - r p h  
 b ~ r e - f / - r,  
 - v r w r p h  
 e r, r r ~ 2:  
 2. b e l l, 2 y r,  
 o / r b r p r.

2:

o / r b r p r.

b:

a), G u g l s!  
 i v r d,

~ r u r d l f z!

ben:

b f c o z e r z f!

ben:

z u d i r e n G!

e p r l r p - v!

o d i p m u t

o z y m u t

lf - rlf lo h s

rlf lo.

r o p m e n o

r f p f l m,

d e b, a l j m b.

l r r t e n n b.

r c r d - f m

e t e r j r m p m p,

a h r p l z j.

c b l s r l o s m,

— r i d — c l u t,

z b m d - p o d.



Uj:

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

Uj Co. (y) (b)

$\sim \mathbb{C} \text{ pte } \mathbb{C} \text{ and } \mathbb{R}$

$- \mathbb{C}, \mathbb{C} \text{ and } \mathbb{R}$

Uj:

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

Uj:

$\mathbb{C} \text{ and } \mathbb{R}$

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

$\mathbb{C} \text{ and } \mathbb{R}$

Uj Co.

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

$\mathbb{C} \text{ and } \mathbb{R}$

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

Uj:

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

Uj:

$\pi \cdot \mathbb{R}, \pi \cdot \mathbb{Z}$

$\mathbb{C} \text{ and } \mathbb{R}$

df Lo.

$27^2 r r$   $\sim$   $r^6$ !

$12 r r e f k$   $f 2$

$10 r r c b$   $f j o n$ ,

$f 10$ ,  $r r$   $t e n g h e$

$\sim$   $d$   $n b y$

df Lo. (o)

$e r e y$   $\sim$   $y d$ !

Lo.

$\sim$   $e l m$   $d$ !

df

$\sim$ ,  $e f$   $\sim$ ,  $r r r g$ !

df Lo.

$c_1 / N$ ,  $2 \sqrt{r}$

$\rho$   $\rho$   $2$   $o$   $m$ !

$\rho$ ,  $\rho$   $2$   $o$   $m$   $x$

$10 r c$   $d y$   $E$   $m$ !

df

$\sim$   $r c m$   $\sim$   $f k$   $o$ !



soo mon:

erl. on je,

'ze n 2:

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

- v p 2 o n!

ben:

nb → 1, 2 ze n je,

e, v s p f v b,

- e, - k o n l p;

2 o n l a h!

df lo:

2 o n - 2 o e

an n p h

↳ v e s<sup>2</sup> n e,

i n n g e n

- a → v b,

- i n 2 o g n.

e s n o p f

↳ 2 l n 2 o n n.

- 2 n - k a 2 l,

↳ a n o p h,

↳ n n - i, p l

p h - p d,

- a l l b / m n,

- a n b l.

imm-yn  
d2, c r fl.

2<sub>o</sub>: (dpe)  
imm-yn  
d2, c r fl.

lj:  
la! la! ea g!

lo:  
—° ter l s r!

lon:  
p. l m - Wol!

lren:  
- n. l. - n. c!

lfo. lo.  
l h m ~ 20, l d j m,  
c ~ c ~ b w c m.

lo:  
r n e / e z n!



đg lo:

1.  $\text{đ} \rightarrow \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$ ;  
 $\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$   
 $\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

lo:

$\rightarrow \text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

đg:

$\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$   
 $\rightarrow \text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$   
 $\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$   
 $\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

đg: (đ)

$\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

đg lo:

$\text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

lo:

$\text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$   
 $\text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

đg:

$\text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ} \text{đ}$

df Co. (ad ~ un. / kg)

~ d, co, og, r, / g, m?

kg:

o r / r d o r ~ r h e ?

df Co.

r f o ~ r h e k.

res: (y kg)

s: e, b, d, g, n, i, h, u, r, p, n.

kg:

z: c, i, c, n, o, ~ ~ ~ r, d = c, n, z.

e h r e ~ ~ ~ e b ~ n.

df Co. (n ~ n<sup>2</sup> / g, c, h, d,

~ ~ ~ d ~ r e c t)

g h ~ c, d, o, i, p, h, r, / y, r, h!

res:

D, e<sup>2</sup> / g, p, o, h.

df Co. (y / c, r)

~ ~ ~ r?

ben:

$\rightarrow \text{pnc}$

$-\text{H}_2\text{O}^{\text{CO}} \sim!$

$\text{df } \text{lo} \sim!; \rightarrow \text{z} \sim!; \text{df } \text{lo}$

$\text{pl} - \text{gl}$

ben:

$\text{w} / \text{g} \text{ e} \text{ h} \text{ e} \text{ r} \text{ e}$

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

$\sim \text{h} \text{ z} \text{ w} \text{ w} \text{ h} \text{ p} \text{ e} \text{ r}$

$\text{d} \text{ r} \text{ e} \text{ h} \text{ l} \text{ m}$

$\text{b} \text{ : } (\text{r}) \text{ d} \text{ f } \text{ l} \text{ o} \text{ o} \text{ r } (\text{g} \sim \text{r})$

$\text{z} \text{ o} \text{ f} \text{ i} \text{ , } \sim \text{z} \text{ i} \text{ n} \text{ v} \text{ i} \text{ l}$

$\text{w} \text{ v} \sim \text{z} \text{ o} \text{ d} \text{ h} \text{ o} \text{ !}$

$\text{d} \text{ f } \text{ l} \text{ o} \text{ . } (\text{w})$

$\text{f} \text{ o} \rightarrow \text{w} \text{ e} \text{ r } \text{ o}$

ben:

$\sim, \text{z} \text{ n}, \text{ o} \text{ v} \text{ n} \text{ o} \text{ p} \text{ l}!$

$\text{z} \text{ o} \text{ i} \text{ n}, \text{ r} \text{ z} \text{ t} \text{ j} \text{ l} \text{ o}$

$\text{d} \text{ f } \text{ l} \text{ o} \text{ .}$

$\text{f} \text{ , } \text{f} \text{ , } \text{f} \text{ z} \text{ e} \text{ r } \text{ o}$

$\text{w} \text{ , } \sim \text{b} \text{ f} \text{ p} \text{ l}$



6: (6m)

inverted,  
subsequent!

alg. 60:

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

6:

1 2 6, n y l n.

alg. 60:

n 1/2 n, 1 y n  
' ) n n h n.

6: (h n p o', c n b s, re - 1 / l n)

2 n l l n! 2 n l, 2 n l!

alg. 60: (l n y l n)

1 n, l n n!

f ~ p n

l n c n 1 ~ l n l n

6:

c o e o n? c n l r y l l n!

1 n, e r 1 n.

g:

o, j e j f z w w!

h:

i e l, i z o r z y b o o w r z.

i:

o, z i, -) f z i,  
- z o z f o k w!

l:

f, i c b o!

o:

w o f!  
e - j z z l u m z!

u:

w l, - a z z m!

u:

f r l z m)

h! h!

f b j i n i f z h!

o p, i o - z i s d f l o o.

df Co. (and p<sup>2</sup> pe)

log pe - c

sen 5 - d!

l<sup>e</sup> x - e d!

b f u d - o i n l n

der:

c v i? c b o z v x!

g:

c u v! o, i, l<sup>2</sup>

o:

- h<sup>2</sup> / x!

ben:

x l o h u v

o, c d ~ f! o, c d h!

l b o u v i n o

u h l - d o o - x u, v o

df Co. (o u)

N<sup>2</sup>, o, o i n v e!

- u d /, o l l p o

g<sup>1</sup>26, per la c.

6:

co 27?

28:

0?

7:

co 28?

ben: (j 6)

- e 2 1 2 20!

28:

- co ~ 27, 28, 29!

28 ~ 29, 30 ~ 31!

7:

~ , 27 ~ , co 28?

7:

C ~ 28? co 29,

28 / 29 28!



ber:

12 r 6 20 / r n r m

5 r 6 0 ~ 2 m

1 r 6 0 ~ 2 m

7 1 2 2 2 0 0 0

2 1 2 2 2 0 0 0

6:

1 2 2 2 2 0 0 0

7:

1 2 2 2 2 0 0 0

ber:

1 2 2 2 2 0 0 0

ber:

1 2 2 2 2 0 0 0

# HEXENKÜCHE

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. 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.

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. 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. 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.

Q:

1 - 00.

df lo.

2! ~ 2, ~ 2e

- d - m / 2:

u d 2 / 20 6 6,

l ~ j ~ m - j ~ m

s t d - e ~ 6

~ 2 y d f ~ 6,

~ d 2 j d f ~ 6,

~ 2 2 p o p, - l - l ~ 6,

~ m, ~ g ~ m, b j ~ m;

e: e 6 2, 2,

s l p l d j ~ m!

Q:

e v 1 / p 1, 1 ~ d / d ~ m,

~ g ~ m 2 ~ m j ~ m

e ~ m ~ g ~ v ~ m / ~ m

df lo.

- 20 e d, d ~ m.

Q:

e ~ m ~ d ~ e ~ f ~ c ~ u!

e ~ g ~ h ~ o ~ d ~ l ~ 2?



1. n:

—  $n_{11}, n_{21}, n_{31}$

2. l. l. o. (y l. l.)

$a, b, c, g, j, m, n$

3. l. l. o.

—  $u, z, l, o, i, h, c, o, l$

4. l. l. o.

$\sim, \sim, e, o, \rightarrow, o, a, r, e, a$

$\cdot, k, i, \sim, n, b, l, m$

$j, \sim, m$

—  $d, v, d, l, l, k, o$

$c, o, l, l, r, i, z, l, z, i$

5. n:

$r, n, l, l, u, o, l, i$

6. l. l. o.

$e, o, r, \sim, l, o, l, o, r$

7. n: (2. l. l. o.)  $a - z, l, l, i, z, l, l, o, l, o$

—  $a, b, c, \rightarrow, z, l,$

—  $d, e, f, g, h,$

—  $i, j, k, l, m,$

$n, o, p, q, r,$



df lo.

co e b!

in: (2 / 2)

de ~ d,

- p 2 / m.

- d / r - b b s.

p p e b!

nd e ~ d,

- e b r / m?

df lo. (2 / 2 ~ 20)

- r / b?

in - r:

- m / b!

- m / ~ b,

- m / ~ 0!

df lo.

p l o r!

in:

~ ce r r,

- o p 2 0 0!

- m / ~ df lo / r.











er 15/22

Ding, 1. e d l d,

25 ~ 1.6) f l i;

en of l u i ~ / u j p i;

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

- c o ~ b o M, ~ 1 / v o n,

~ 4 v l ~ n j e i;

e r u e r v, a r u h l u n,

o f l u l o p c e n.

1. 2. (h y c)

o - p e u i y;

o i ~ l u n o n e r!

u f l o.

~ n, c, u! v!

1. 2.

c u i? c o r, / p i?

u f l o.

i j r n o l u d) p h i;

u, i r p i? i u o h,

~ l o r? b. o, i l o r? p h i.

e n d v r u n, - i, o r? y;

i v ~ n e, a i n e n.

e f l e d / ~ v r e n e i;

o, z, e, e, d, e, i, b!

u, u, g, o, r, p, e.

1. B. (A, p, b)

z, z, e, i, z, u, u!

r, r, e, o, r, r, u, u!

1. B. (y, l, b)

u, l, e, m, c, y!

9, i, d, z, z, u, p, p, i.

1. B.

u, o, r, z, u, c, o, r, z, l.

1. B. (y, l, b)

u, z, o, z, l, z, u, u!

z, z, o, z, z, z, u, u!

u, l, e, l, u, o, u, u.

1. B.

z, z, u, z, z, z, l, g, z,

z, z, b, z, u, z, z,

z, z, z, z, z, z, z, z, z,

z, z, z, z, z, z, z, z, z.

z,

z, z, z, z, z, z, z, z,

z, z, z, z, z, z, z, z.

df eo

in  $2e^2 - p^2$ ;  
in  $2m e^2 - p^2$ .  
per  $2e^2 - p^2$ ,  
-  $2e^2 - p^2$ !

$2e^2 - p^2$  per  $2e^2 - p^2$  -  $2e^2 - p^2$ ;  
 $2e^2 - p^2$  per  $2e^2 - p^2$  -  $2e^2 - p^2$ ;  
 $2e^2 - p^2$  per  $2e^2 - p^2$  -  $2e^2 - p^2$ ;

df eo

$2e^2 - p^2$ ,  $2e^2 - p^2$ ;  
 $2e^2 - p^2$ ,  $2e^2 - p^2$ ;  
 $2e^2 - p^2$ ,  $2e^2 - p^2$ ;

df eo

$2e^2 - p^2$ ,  $2e^2 - p^2$ ;  
 $2e^2 - p^2$ ,  $2e^2 - p^2$ ;  
 $2e^2 - p^2$ ,  $2e^2 - p^2$ ;

$2e^2 - p^2$ ,  $2e^2 - p^2$ ;

df eo ( $2e^2 - p^2$ ,  $2e^2 - p^2$ )

$2e^2 - p^2$ ;  
 $2e^2 - p^2$ ;

- f o r z,  
- e d z,  
- b e z,  
w, f!  
o b l - o,  
- d, b,  
D o r - R,  
- p, M:  
- i n e,  
- j i n e.  
e: e d h - r e n d!

U:  
D o r t, , f p, p, b.

U f l o.  
e: i n t, s,  
m - c, - n e r y d;  
z u t f o r e n,  
a n n i e f f  
w d z p w b o z o l e n.  
u b o n d i t - n s.  
- a n d j e n f,  
p p - o, - o - p  
N<sup>o</sup> g e n j d.  
- g f - d r e g f d;  
a - ) i ~ n n d o?

Handwritten notes in cursive script, possibly including the words "Handwritten" and "document".

Handwritten note in red ink: "B. (L/P)"

Handwritten note: "122nd"

Handwritten note: "10/1"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note in red ink: "6:"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note in red ink: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"

Handwritten note: "12/12/12"





~erbrn ~ 2Ddyy,  
- we p' e 2 ~ n yy,  
a) 2e d-2-e p'.

Q:

od -> z ~ p' z!  
e h' e a n j z!

df lo.

~! ~! e' e' f' n h'  
~ we d' - o' o' z'.

o

e b, 2 q' h' p' u,  
we z m z t e c u.

STRASSE

*U. was spe.*

*U:*

*u z u l . e r l . e n ,*  
*u n e - / r p n .*

*u n e .*

*u c e l . e n z u ,*  
*u p / D z n .*  
*u l l . o - u .*

*U:*

*u z u , 90 u c . z u !*  
*— u o z u p z u .*  
*u — u . - u o u ,*  
*— u o p l e p .*  
*u u , i c u l ,*  
*u i c u o p o !*  
*u b i z u p ,*  
*u l l . u z u p t ;*  
*u b u p u e n ,*  
*u i n p u n !*

*u l l . o o p s .*

Q:

2, 4, 6, 8, 10, 12!

alg. Co.

2, 4, 6, 8, 10, 12!

Q:

6, 8, 10, 12!

alg. Co.

ent. 6, 8, 10, 12!

1, 3, 5, 7, 9, 11!

2, 4, 6, 8, 10, 12!

in 2, 4, 6, 8, 10, 12!

ent. 1, 3, 5, 7, 9, 11!

8, 10, 12, 14!

Q:

1, 3, 5, 7, 9, 11!

alg. Co.

1, 3, 5, 7, 9, 11!

1, 3, 5, 7, 9, 11!

1, 3, 5, 7, 9, 11!

1, 3, 5, 7, 9, 11!

1, 3, 5, 7, 9, 11!

Q:

$\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$

alg. Co.

$\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$

Q:

$\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$

alg. Co.

$\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$   
 $\sim \sim \sim \sim \sim$

Q:

$2 \times 10^9 \rightarrow e.$

df Co.

$1/2 \rightarrow 1/2 \rightarrow 1/2$

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

$2 \rightarrow 2 \rightarrow 2$

$2 \rightarrow 2 \rightarrow 2$

$1 \rightarrow 1 \rightarrow 1$

Q:

$1/2 \rightarrow 1/2 \rightarrow 1/2$

$1/2 \rightarrow 1/2 \rightarrow 1/2$

$1/2 \rightarrow 1/2 \rightarrow 1/2$

$1/2 \rightarrow 1/2 \rightarrow 1/2$

df Co.

$1/2 \rightarrow 1/2 \rightarrow 1/2$

$1/2 \rightarrow 1/2 \rightarrow 1/2$

$1/2 \rightarrow 1/2 \rightarrow 1/2$

$1/2 \rightarrow 1/2 \rightarrow 1/2$

Q:

$1/2 \rightarrow 1/2 \rightarrow 1/2$

2/3 Leo.

~!

6'1' ~ 10'0'.

2'0' ~ 1'20"

~ 2'0' ~ 1'20"

~ 2'0' ~ 1'20"

4:

~ 1'20"

2/3 Leo.

~ 2'0'.

4:

~ 2'0' ~ 1'20"

1.

2/3 Leo.

~ 2'0' ~ 1'20"

~ 2'0' ~ 1'20"

~ 2'0' ~ 1'20"

~ 2'0' ~ 1'20"

1.

ABEND

                    

www: (ny l lhc - nve)

2200h, c1 - 00,

ca 27 21 po!

\ o p l l c u e

- i e l e u 2 i

e d i l e n i g u o m

\ c d o d l - m p o:

1.

u f l o . l f

u f l o .

2, 2 y l o, - 2!

l f: (d m j u z u)

1 u d, o l e n!

u f l o . (2 p v e)

1 l e o r d 2! -

1.

l f: (v e g r e)

~ ~ , p e u y,

\ e g 9 2 l e c d!





$x$   $\rightarrow$   $\frac{1}{x}$   $\rightarrow$   $\frac{1}{x^2}$   
 $\sim$   $\frac{1}{x^2}$   
 $-$   $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\rightarrow$   $\frac{1}{x^3}$

$-$   $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$

$\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $-$   $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$

$-$   $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$

$\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$

$\frac{1}{x^2}$   
 $\frac{1}{x^2}$   $\rightarrow$   $\frac{1}{x^3}$





—o. n. j. p. h.,  
j. d. o. j. d. p. h.,  
2. d. o. o. r. d. h.,  
~ d. h. / p. h.

—o. o. v. r. n. d. h.,  
—v. h. r. n. z.,  
—s. z. n. s. h. o.,  
—e. l. s. i. z. o. n. n.

—e. l. p. o. i. s. t. h.,  
—h. o. j. h. o. n.,  
—c. h. ~ z. h. d. h.,  
—z. h. i. b.

—o. n. j. p. h., h. n.  
—o. n. h. o. n.,  
—z. h. p. o. n.,  
—h. n. ~ h. n.

o. h. i. z. f. n. o. n. p. w. — w. e. z. n. h.

—o. n. d. e. z. n. d. h. z. z. i.  
—z. o. d. n. j. p. o. ~ j.  
—i. d. e. n. i. c. o. n. c. o. n. o. i.  
—f. h. h. e. s. ~ h. e.,  
—z. z. p. e. s.

erw - 20<sup>h</sup> ave  
1 erw c, 1 D, 1 s!  
co: el 21 R 26! 2s  
- co 2 12 n / p 2!  
~ 2! 2<sup>2</sup> / ed  
n 2 26 l un 2.  
c<sup>f</sup> v, n 2 f!  
erw, n / p n!  
o (f) er 5 - 11 ~ p 2.  
c<sup>f</sup>, n 2 2 c n!  
n 2 2 2 2 2 2 2.  
co 2 2 2 2 2, 2 2 2!  
e. c. 2 2 2 - 2,  
n 2 2 2 2 2;  
n 2 2 2 2 2 2.  
D 2 2 2,  
n 2 2 2  
D 2 2 2 2 2!

SPAZIERGANG

Uppercase - asc.  
j p r l f lo.

rlf lo.

u n g h i l r 2 . p r t!  
1 - 1 b c o m n e p o l l r t!

U:

c o r c o m n o p e n - o?  
- m p o r r r r t!

rlf lo.

1 2 r p 2 r 2 l e m n,  
c 1 - b m l e c r!

U:

2) e c o r n l g u?  
p r e s o - o c r j r t!

rlf lo.

e n t - , ~ z , l W h r p l l,  
~ 2 ~ l l 2 o r p l l!  
1 2 n r t e o r j r r  
2 l W r r r r r j r r  
1 g r r r l e r p l l

гдм р р р  
- б р р р р,  
р р р р р;  
- р р р р р,  
р р р р р.  
» р р р р р,  
р р р р р.  
- р р р р р,  
р р р р р!  
р р р р р,  
р р р р р,  
- р р р р р;  
р р р р р.  
р р р р р;  
р р р р р,  
р р р р р.  
р р р р р.  
р р р р р,  
р р р р р,  
- р р р р р;  
р р р р р,  
р р р р р.

р:  
р р р р р,  
р р р р р.



df Co.

$\rho \sim \rho, \alpha - \sqrt{2}$ ;

$\sigma \sim \sigma, \beta$ ;

$\epsilon \sim \epsilon, \gamma - 1/2$ ;

$\delta \sim \delta, \eta$ ;

$\theta \sim \theta, \zeta$

$- \text{b c o s y e t.}$

U:

$- \text{W}^2$

df Co.

$\sigma \sim \sigma$ ;

$\omega \sim \omega, \alpha \sim 2$ ;

$\epsilon \sim \epsilon, \eta - \beta$ ;

$\gamma \sim \gamma, \rho / \beta$ .

U:

$\sigma \sim \sigma, \eta, \nu$ .

$\gamma \sim \gamma, \rho \sim \rho, \beta$ !

$\alpha \sim \alpha, \eta - \beta$ .

df Co.

$- \text{h}^2, \text{m i c r o s c o p y!}$

U:

-D, -B D r r o,

x d r r d r r!

- , l b, d - / o l,

- p r r r z r r!

Uf Co.

h, r e n r, l z p m.

Ua.

Uf Co.

- ~ d l r d l

o r, r e - e f r

f f r r r r r r r r r.

U.

# DER NACHBARIN HAUS

WP: (a)

21. 2. 2020

1. 2. 2020

neufrieden

-bds<sup>2</sup>fen

1. 2. 2020

1. 2. 2020, 1. 2. 2020

6. 2.

1. 2. 2020, 1. 2. 2020

1. 2. 2020

1. 2. 2020

WP:

1. 2. 2020

WP:

1. 2. 2020

WP:

1. 2. 2020

1. 2. 2020

1. 2. 2020

1. 2. 2020

1. 2. 2020

WP:

erob / u a;  
v e r / v l h.

WV:

D o b - ! D z b - !

WP: (y b s)

g r o h u a !

WV:

er v, e, / s - r o  
J i n t r o s o.

WP:

r e s - l j v z s,  
- n ~ z r z h u;  
g r ~ g h r i p r o u s,  
r z i l e h;  
- e r i ~ r o, r i ~ l b,  
c r o - D - D ~ r o z b.  
~ r h b, i l e r o s;  
r z o c, l, r v l r D c o.

WV:

a r t - , v e r b l u e;  
- n / j r h o u !

and

WP:

Dr! ver 20!

WP: (e n. 20)

i ~ her n ~ 2!

alg looks

alg lo.

v ~ l, k 2 p n,

20 ~ k y 2 n n.

knut ~ w n p x.

— D h w p g o t h!

WP:

1 v, c o 2` n / o n!

alg lo. (e o / n)

1 n 6 p, v i e p n;

6 2 e n ~ n 6.

f i l, i i p n,

— D n E n.

WP: (1)

$\ln, \sqrt{e}, z \cdot \omega z \cdot d!$   
 $\cdot \ln \rho l \sim L \cdot \omega z!$

WP:

$1 \omega \sim \omega \omega \omega \omega \omega \omega$   
 $D \omega \omega \omega \omega \omega \omega \omega \omega$   
 $z - \beta e^z / z$

df Co.

$D, \cdot \cdot \cdot z \cdot \omega$   
 $\omega \omega \omega \omega, \sim \omega \omega \omega \omega \omega \omega$   
 $\omega \omega \omega \omega, \omega \omega \omega \omega \omega \omega$

WP:

$\omega \omega \omega \omega \omega \omega \omega \omega$

df Co.

$1 \omega \omega \omega \omega \omega \omega \omega \omega$   
 $1 \omega \omega \omega \omega \omega \omega \omega \omega$   
 $1 \omega \omega \omega \omega \omega \omega \omega \omega$

WP:

$\omega \omega \omega \omega \omega \omega \omega \omega$   
 $\omega \omega \omega \omega \omega \omega \omega \omega$

www:

D. x h, y d //

df lo.

— 2 v, L r p l

www:

2 r q z n / h,

4 v p j e m.

df lo.

L e r o e, e r o l e z.

wp:

y / v o n o z o!

df lo.

1 d z C e s, m

v r z m z v o

2 r c y c f z

f d r n z u.

wp:

2 r o d i n v j m z

df Co.

$h, -u, 20-g:$

$o \partial h l r e s e l v o s m!$

$R \times R^2 \rightarrow R^n$

WP:

$co. / \sim \text{ggr?} \text{ in } R^2$

$co. \text{ in } R^n \text{ is } R^k \text{ or } \emptyset$

$f \text{ is linear}$

$-h \text{ and } h \text{ are!}$

df Co.

$200, -40 \text{ ggr.}$

$\sim \text{is } R^n \text{ or } \emptyset$

$D, u \rightarrow \text{Co.}$

$h, -u \text{ on } R^2 \text{ is}$

WP:

$D, e, u \text{ on } R^2$

$R^2, - \text{ is } R^2 \text{ or } \emptyset$

df Co.

$R \text{ is } R^2, \text{ is } R^2$

$R \text{ is } R^2$



www:

Dm, enff 2/2.

ulf lo.

9/1 ~ 2, ~ e ~ 2.

9: ~ 2 6 2 2 2 2,

~ ~ 1 0 2 2 2 / 2.

www:

e. o. 20 / 1 0.

ulf lo.

0 e 1 1 2 / 0.

www:

y / v 0!

ulf lo.

1 2 2 ~ 2 2 2 2,

~ 2 2 2 2 2 2,

1 2 2 2 2 2; ~ 2 2 2 2

- 2 2, e, c 2 2 2 2 2.

» 2 2, 2, » 2 2 2 2 2 2,

~ 2 2 2, 2 2 ~ 2 2!

2, 2 2 2 2 2

2 2 2 2 ~ 2 2 2 2!»



e ~ y ~ 2 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
e ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
- 1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
2 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

WP:

1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

df Co.

a ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

WP:

1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

df Co.

1 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0  
0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0 ~ 0

WP:

D r i a d r u l a ,  
 b e i l b r o d r e !  
 i t m e z y p u t h o .  
 - k e c u - h e c u  
 - e l l o l y .

Uf Co.

~ ~ ~ d r i p u ,  
 a s y l i t e  
 l o o s t o r e .  
 i g a s y l i t e  
 d o l b e s y ~ s u !

WP:

- u l l e z y p u !

Uf Co. (L)

~ d r i p u !  
 i t c ~ l b b u c l .  
 j h e  
 a g e r e z y p u !

WP:

c o r d i n o l l





STRASSE

U. d. f. lo.

U:

o p i -> l e n i -> u e r i

U. d. f. lo.

s t e ! l e , j e l z i

z r e f . W h - s

z r e f . l e n i -> u e r i

e i n c o o r

j a n i - f u c o i

U:

- u !

U. d. f. lo.

l ' d e s t u n t

U:

- e d . c . e n t

U. d. f. lo.

e n t - u f r o p

e n t e n t e n t e n t

z e s t - z i n g e n t

U:

$\sigma \pi^1 \tau \omega \delta, \nu \delta \nu \sigma!$

Uf Co.

$\sigma \pi \delta \nu \sigma \nu \delta \nu \sigma \nu \delta \nu \sigma$

$\nu \delta \nu \sigma, \nu \delta \nu \sigma.$

U:

$\sigma \nu \delta \nu \sigma, \nu \delta \nu \sigma.$

Uf Co.

$\nu \delta \nu \sigma \nu \delta \nu \sigma \nu \delta \nu \sigma$

$\nu \delta \nu \sigma \nu \delta \nu \sigma,$

$\nu \delta \nu \sigma \nu \delta \nu \sigma!$

$\nu \delta \nu \sigma, \nu \delta \nu \sigma \nu \delta \nu \sigma,$

$\nu \delta \nu \sigma, \nu \delta \nu \sigma \nu \delta \nu \sigma - \nu \delta \nu \sigma,$

$\nu \delta \nu \sigma \nu \delta \nu \sigma \nu \delta \nu \sigma!$

$\nu \delta \nu \sigma, \nu \delta \nu \sigma!$

$\nu \delta \nu \sigma \nu \delta \nu \sigma,$

$\nu \delta \nu \sigma, \nu \delta \nu \sigma \nu \delta \nu \sigma,$

$\nu \delta \nu \sigma \nu \delta \nu \sigma \nu \delta \nu \sigma!$

U:

$\nu \delta \nu \sigma - \nu \delta \nu \sigma, \nu \delta \nu \sigma.$



alg. Leo.

h, c, r, o, l ~ B, h, d.

e, r, m', z, e, r, m,

e, r, m, l, u, m

- e, o, u, t, r, z, u, t

U:

- j, s, z, p.

alg. Leo.

z - j, u!

e, i, s, d, n, l, s, - k,

l, p, s, o, l, n, k, u, m

'e, n - s, z, p, u, t

U:

s, e, l, 't, m, c, i, g, e,

l, e, b, l, e, p

D, u, r, d, u, m, l, e,

e, r, i, c, h, e, n, b, o, n, g, l,

D, e, r, s, t, e, c, k, l,

- s, z, p, l, i, h,

l, e, s, t, e, m,

'e, n - l, e, b, n, g, l.

2/3/20

12/2/20

4:

2/2/20

1/2/20, 2/2/20

1/2/20, 2/2/20

1/2/20

1/2/20, 2/2/20

1/2/20, 2/2/20

GARTEN

wassalge  
wassalge - a gpc

wmt:

1 b, c, e p - a - g  
2) b, d, g  
~ sei - p  
~ w l y  
1 c o, n, e l h i n  
~ r e p l b t

q:

~ w s e, ~ c t u b l  
~ e c g q d  
~ b r x e

wmt:

w w l g l a d r b t d  
b - d, - s  
c o, 1 / 2 e o g h v o  
~ r i n / p s  
  
~ w s

WP:

- r, z, n, r, b - m p

df lo.

D, e, r - B, e, y, t, u!

z, f, z, y, b, u, r, u, h, d

- e, l, d, n, r, e, l, u, u!

WP:

z, f, z, y, b, u, r, u, h, d

- r, z, r, p, i, d, j, f, h;

d, n, d, i, u, o, y, z,

- j, o, n, g, j, o, n, j, h, j, z, h;

e, o, d, n, r, e, u, h.

df lo.

z, f, z, y, b, u, r, u, h, d

WP:

r, z, n, r, b - m p

WP:

WP:

h, o, r, z, o, b!

z, f, z, y, b, u, r, u, h, d

e, l, d, n, r, e, l, u, u!

b<sup>2</sup> yom, o. u.

U:

— b! z, com — yom,  
• 0 z — r — jo.

www:

o!

U:

D, e, l, e, i, p, e, n  
Jb — m, z, i, n, d, m!  
e, e, y, v, i, z, b, u  
— k, o, d, e, r, u, m

www:

ent r ~ v ~ w ~ h ~  
i ~ f ~ p ~ s ~ l ~ e ~ n ~ z.

U:

r ~ e ~ f ~ e ~ n ~ t

www:

h, i, o, f. — m,  
— d — b — o — o —  
r ~ z ~ m; r ~ o ~ z, b, u, f ~  
— i — h — p — g;





df eo.

$\frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$   
 $\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

wp:

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$   
 $\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

df eo.

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$   
 $\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

wp:

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

df eo.

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

wp:

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

df eo.

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$

wp:

$\frac{d}{dt} \left( \frac{1}{2} \dot{x}^2 + \frac{1}{2} \dot{y}^2 \right)$





$\sim \rho, \alpha, \beta, \gamma, \delta,$   
 $e, \dots, \text{etc.}$

Q:

$\rho, \beta!$

WWT:

$b, r!$

$b, \beta, \gamma, \delta, \dots, \text{etc.}$

Q:

$\cos^2 \sim \beta^2$

WWT:

$\dots, \dots, \dots$

Q:

$\alpha!$

WWT:

$\alpha, \beta, \gamma, \delta,$

$b, \beta, \gamma, \delta,$

Q:

$\cos \sim \alpha, \beta?$

www: (2.4.1)

~  $\mu \nu \mu \nu \mu \nu$

Q:

$e_2$   $\rightarrow$   $2e_1 \nu \mu$

www: (2.4.1)

$\mu \nu \mu \nu / \mu \nu \mu \nu / \mu \nu$

$e_1 \nu \mu \nu \nu \nu \nu \nu \nu$

~  $\mu \nu$

Q:

$h, 2 \nu \nu \nu \nu \nu \nu \nu \nu$

$e_2 \nu \mu \nu \nu \nu \nu \nu \nu$

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

~  $\nu \mu \nu \nu \nu \nu$

www:

$\nu \mu \nu \nu \nu \nu$

Q:

$\nu \mu \nu \nu \nu \nu \nu \nu$

$\nu \mu \nu \nu \nu \nu \nu \nu$

coeff:

$\nu \mu \nu \nu \nu \nu \nu \nu$

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

$\nu \mu \nu \nu \nu \nu \nu \nu \nu \nu$



alg. Geo.

- b r D. e. l' d.

# EIN GARTENHÄUSCHEN

wm f 2, gl) 2/1, v;  
2/1, l. r. f. 2, l. r. - 2/1, v.

wm:

v. r.!

l.: (v. r.)

D, z. r. - v. r.!

h. r.!

v. r.!

wm: (v. l. b. - v. r. p. v. c.)

v. r.! S. z. p. r.!

v. l. b. r.!

l.: (p. v. c.)

v. r.!

v. l. b. r.!

v. l. b. r.!

l.:

v. r.!

df lo.

i.c. f j r

wp: (and)

h, i, j, r

q:

er, i, j, r

wp:

r, i, j, r

q:

r, i, j, r

dc!

wp:

e!

wp:

r, i, j, r

q: - df lo.

wp:

r, i, j, r

lo, eo, er, r

yd → p<sub>1</sub> p<sub>2</sub>

- a<sub>1</sub> a<sub>2</sub> h

u d ~ r p<sup>c</sup> r<sup>c</sup>,

h l, c ~ v l d.

u.







$\sim \sigma^2 \mu, \rho, \sigma, \omega^{-1} L,$

$\cdot \cos \omega / \mu$

$\sim \mu \rho \omega \omega, \sigma \omega$

$\cos \rho \omega - \cos \omega \sigma^0,$

$\omega \omega^2 \omega \omega \omega \omega \omega$

6:

$e \sim \omega \omega \omega \omega$

$\sim \omega \omega, e, \rho \omega$

7:

$\omega \omega \omega, \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega \omega \omega$

$\omega \omega \omega, \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega$

$\omega \omega \omega, \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega \omega \omega$

8:

$\omega \omega \omega, \omega \omega \omega \omega \omega \omega$

$\omega \omega \omega \omega \omega \omega \omega \omega$

$h, s^b$   $g$   $\sim$   $m$ ,  
 $g$   $c$   $b$   $c$   $l$   $z$ ,  $z$   $v$   $l$   $z$   $m$ .

df Co.

$\sim$   $s^b$   $g$   $\sim$   $m$ ,  
 $z$   $l$   $-$   $g$   $s$   $\sim$   $m$   $m$ ,  
 $-$   $re$   $-$   $z$   $c$   $l$   $z$   $m$ ,  
 $f$   $\sim$   $z$   $g$   $g$   $m$   $m$ ,  
 $\sim$   $re$   $m$   $z$   $g$   $m$ ,  
 $\sim$   $z$   $o$   $m$   $m$   $l$   $g$   $m$ ,  
 $z$   $f$   $g$   $l$   $z$   $c$   $o$   $l$   $z$   $m$ ,  
 $l$   $o$   $l$   $z$   $z$   $z$   $z$   $m$ ,  
 $g$   $c$   $z$   $g$   $l$   $z$   $m$ ,  
 $-$   $l$   $z$   $z$   $z$   $z$   $m$ ,  
 $z$   $\sim$   $pe$ ,  
 $z$   $l$   $z$   $l$   $z$   $m$   $z$   $z$   $m$ .

U:

$g$   $s$   $o$ !

df Co.

$e$   $\sim$   $l$   $z$   $m$ ,  
 $z$   $z$   $z$   $z$ ,  $z$   $z$   $z$   $z$ ,  
 $z$   $z$   $z$   $z$   $z$   $m$ ,  
 $z$   $z$   $z$   $z$   $z$   $m$ ,  
 $-$   $z$   $z$   $z$   $z$   $z$   $z$ ,  
 $z$   $z$   $z$   $z$   $z$ ;

д. н. э. / е. н. э.  
е. н. э. / е. н. э.  
— с. н. э. / е. н. э.  
з. л. э. / н. э. — л. э.  
м. н. э. / н. э. / е. н. э.,  
— с. н. э. — н.  
е. н. э. / н. э. / с. н. э.,  
с. н. э. / н. э. / с. н. э.  
д. н. э. / с. н. э. / е. н. э.,  
с. н. э. / н. э. / с. н. э.;  
е. н. э. / с. н. э. / е. н. э.,  
н. э. / н. э. / с. н. э.  
д. н. э., с. н. э. / н. э.,  
с. н. э. / с. н. э. / н. э.,  
е. н. э. / н. э.  
с. н. э. / н. э.  
с. н. э. / н. э. / с. н. э.;  
с. н. э. / с. н. э. / с. н. э.  
с. н. э. / с. н. э. / с. н. э. — н. э. / с. н. э.  
н. э., с. н. э. / н. э.  
с. н. э. / с. н. э., с. н. э. / н. э.,  
с. н. э. / с. н. э. / с. н. э.,  
е. н. э. / с. н. э. / с. н. э.,  
— н. э. / н. э.

Q:

$z!z!$

df Co. (l)

$z!e_1!l!$

Q:

$z!z!l!z!$

$-z!e_1!z!$

$l, l, l, l, l$

$l, l, l, l, l$

df Co.

$z!e_1!z!e_1!z!$

$-z!z!e_1!z!$

Q:

$z!z!z!z!z!$

$z!z!z!z!$

$z!z!z!z!z!$

$z!z!z!z!$

df Co.

$z!z!z!z!z!$

$z!z!z!z!$

Q:

$\Delta P, \Delta G$

df Co.

$\gamma \sim \Delta P, -120 \Delta$

$\sim 2, \sim 4 - \Delta \Delta \Delta \Delta$

$\sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \Delta \Delta \Delta \Delta \Delta$

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

$\Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta$

Q:

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta$

$\Delta \sim \Delta \sim \Delta$

- 6 j k m z h!  
b, m k l r p, s h u!  
e, z u, v b q o h z.  
z l, l b, v, j i n u y.  
c o r o p, r a z p u!  
v r p s v g y  
- 6 v s h e r z!

*df lo.*

o e d l, e z h!  
n ~ - l b, e, l!  
c ~ ~ r l h m o n d,  
f l, j z p e r e ~.  
- u, a j h z h!  
e, b d o d - p u p l l.  
i y z l b e, s i d  
o ~ l b, i g l l.



GRETCHENS STUBE

W: (a p u l, e n)

v v 2,

v z y j i

v b e b r

- s m

c r l z

v e h

v y d

v r l

v r u l

v u d

v r u b

v f f d

v v 2,

v z y j i

v b e b r

- s m

D r t r 1

f l d 2 0

D r t r 1

v 2

o z z n,

o e p,

o v e o n,

o n p,

- o e

p o,

o x e,

- D! o n!

v y z,

v z y z,

v e o n

- n n.

v e o n

J D R z,

D e n l, o

- z n,

- n o n,

- o n,

n o n

n!

MARTHENS GARTEN

*www. G.*

*www:*

*pv, 2 p!*

*G:*

*com!*

*www:*

*~ a, a e; l' ~ M?*

*g b ~ 2 f 2 2,*

*~ 1 2, 4 2 / f e.*

*G:*

*o e, 2 ~ r e! e b d, 1 v e 2,*

*l 2 ~ p, r - 4,*

*- r e o b - o r h 2,*

*www:*

*e / l, 2 2 2 2,*

*G:*

*2 2?*



u p e,

-) k e

jon: » r r / k

˘ r l o,

˘ r s l,

l b - s l /

o l, r l, ) b

c d ) ˘ r / e e e

d, r e / r s l b

- f r l e w e

r e f r / r

r s / r r e,

- r l / e o

D r l - r r e,

- d r m p w e

f u r b u r e

b e e e r y, - l o i;

- c e r y i ˘ b o l b,

r - e, c e;

r e r / r y / l / r

r r r r

e l. b i e o;

r i j u - d,

r w e r e o r

www:

eiohgn-2;  
ghde'ln D,  
-rbrct.

U:

oent  
exp'2'p'n,  
tozof;  
crl'iz'v?

www:

cro-2v,2b.ig,  
gndm'p'p  
eyomv.

U:

to'rc!

www:

-4v'ngos,  
eip'ip'os.

U:

a-?

www:

~ 2g, ~ 4e1 v 0, 2;  
• v 2 h r i n o s b;  
~ 2 v 2 v 2 m  
— 9 ~ p 2 2 y p u  
o 2 g p 0 p l.

6:

~ 6, 6 6 r 1!

www:

o m a l u d v e 4.  
~ 1 v o d e n 2 g p 2;  
m a 1 v 0 r, d / j z  
2 1 ~ 2 2 g p ~ 2 2 h z  
— 2 / r l ~ z r e y!  
2 1 g 2 v, c 1 p 6 4!

6:

~ 2 0 1 2 g y m.

www:

— 1 / 2 0 2 2 h m!  
~ 2 1 ~ 2 2 / r 2,  
o 1, p — g 2 h  
— 2 2 2 p l;  
2 0 1, e, ~ 1 2 2 2 2 2 2;

grüngrün,  
e/v ost  
v<sup>d</sup> c. z. e. r. n.,  
— l, — 2 p. n.,  
— o m. j. v. e. n. j.

U:

g. n. g. n. g.!

www:

e. n. v. o,  
e, c, — v. j. k.,  
u, — n, — k. p. v.  
D, c, e; — l. n. u.,  
— e. b. v. n. z. z.;  
e, z. l, z. o. — o.

U:

g. n. g. n.!

www:

z. o. n. l.

U:

D. n. n.  
— g. h. g. o. n. z. n.  
— U. U. — o. z. o. n.?



www:

Dei - ... gl!  
1. Per m 2, 11 ~ 14 h;  
2. 22 in gl/h,  
- 2 1/2 1/2 h,  
1. 2 1/2 1/2 h!

U:

g n, e 2 n 1.  
x ~ l h!  
e l h ~ m h 2 p e n  
2 h 2 g l f u 1 n a.

www:

co 4 1/2 e n 2  
1 1/2 h 1/2 g e n!

U:

8 1/2 d, 1 h, e - 1 h!

www:

o 1 d, 16 n, 1 n,  
co 1, co 1/2 d e r - 1 d,  
1 2 7 J l d p,  
e r 1/2 l b 1 2 n s h d.  
a.

alg. Lo. 11.5.

alg. Lo.

2. 1. 1. 1. 1. 1.

U:

2. 1. 1. 1. 1. 1.

alg. Lo.

1. 2. 1. 1. 1. 1.

2. 1. 1. 1. 1. 1.

2. 1. 1. 1. 1. 1.

1. 2. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

U:

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

alg. Lo.

1. 1. 1. 1. 1. 1.

1. 1. 1. 1. 1. 1.

4:

g p p - / s e - l s !

alg. lo.

- , b  $\sim$  u g b r b :

z z m d  $\sim$  , b c o / d ,

z z o h e c o t u r b ;

b b , e i n g b  $\sim$  z ,

f c . n i l v .

$\sim$  , z z n m !

4:

con d o n i

alg. lo.

z i d z l e h !

AM BRUNNEN

Wh-Birch

Sh:

29/5/2012

Wh:

med. in v. l. s.

Sh:

p. p. d. v. 2:

12) r. d. u. l.

e. e. r. l.

Wh:

a-?

Sh:

- g. l.

6/11/12, comb-h. l.

Wh:

D:

Dr.

— 9 r e d m.  
a r 2 b ~ 2 m p m!  
e c a ~ p p m;  
s e n l - w p g l m;  
z b s e i d o m;  
r ~ w b r m 2 G p h - c m;  
u d ) c o s r m z g ~,  
c a d - m o , ) / j z m;  
p p r / P p p m.  
c a ~ p o - ~ p r;  
e i e n D e w l h o r!

Dr.

e r e o r!

Dr.

u s / b J m!  
c I e a p m c,  
I n b i r m / 2 d o,  
p e b l M L o b;  
s i m m - P e n n n  
c e m ~ p e j r.  
e r n b e r ) e m m  
P e r n e h r t h o l!

W:

~ 2/6 10/5 1/4

A:

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

2 1/2 1/2 1/2

~ 1/2

W:

e: 1/2

A:

~ 1/6 r, 2/6 r, 1/6 r,

e: 1/2 1/2 1/2

- 2 1/2 1/2 1/2

u

W: (1/2 2/3)

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

$\forall! a \rightarrow \exists! D, a \_ \mu!$





10, D. n. n.

10, 10, 10,

22, 10, 10.

10, 10, 10, 10

10, 10, 10, D.

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.



°o ~ lozenge  
under foot!  
- 2/16/20  
2/16/20.

cond 2: coz la?  
1/1, 2/1/20.  
i, 2/1/20  
°/10/15/20!

6. 2/1/20.

6:

o 1/2/20  
set 2° in 2/1/20  
- 2/1/20  
- 2/1/20  
- 2/1/20.

2/1/20.

- 2/1/20  
e ~ 2/1/20  
Joan 2/1/20  
v 2/1/20  
~ 2/1/20  
- 2/1/20  
2/1/20.



df lo.

d g h l o,

no d ko jo o.

h, ei o u g u o,

d r o o d g o u:

o o o o o o,

o o o o u.

o o o

o o o o

o o o,

o o o,

o o o o o

o, o, o!

o o o

o o o,

o o o o.

o o o o

o o o,

o o o

o o o, o o o!

o o o,

o o o o

o o o

o o o o o.

Len: (H)

u. b. g. r. i. v. e. n. t.!

r. e. s. p. e. c. t.!

f. u. l. l. d. e. f. i. n. e.!

f. u. l. l. d. e. f. i. n. e.!

Uf. Co.

i. p. h. i. s. i. s. t. a. n. c. e.!

Len:

r. i. s. i. n. g. l. e.!

Uf. Co. (y. l. l.)

r. e. s. p. e. c. t.!

r. e. s. p. e. c. t.!

r. e. s. p. e. c. t.!

r. e. s. p. e. c. t.!

Len:

r. e. s. p. e. c. t.!

Uf. Co.

r. e. s. p. e. c. t.!

Len:

r. e. s. p. e. c. t.!



WP: (0-1)

$2f - 0, 2f - 0$

Ln:

$e \cdot f \sim 1$

WP: (20/10)

$1, 2, 3, 6, 12$

WP: (20/10)

$e \cdot f \sim 1$

Ln:

$e \cdot f \sim 1$

WP:

$1, 2, 3, 6, 12$

Ln:

$1, 2, 3, 6, 12$

$1, 2, 3, 6, 12$

$1, 2, 3, 6, 12$

$1, 2, 3, 6, 12$

$1, 2, 3, 6, 12$



~ Wh, 0! e b 2 L  
b 2 2 / p m  
v k e 2 g l.  
1 0 0 2 2  
e b 2 ~ ~ ~ ~ ~  
~ ~ ~ ~ ~

Wh:

~ 6! 2! 0 0 v e!

Lm:

o i' 2 2 1 0 2 p o!  
p i' e ~ ~ ~  
- 0 2 2 ~ ~ ~  
e b 2 2 ~ ~ ~  
6 2 ~ ~ ~  
- 0 2 2 ~ ~ ~  
~ ~ ~ ~ ~

c d, y e' p m,  
' 6 2 2 / d / p l,  
- 2 p ~ ~ ~  
r s r l - ~ ~  
h, 2 2 2 6 2 ~ ~ ~  
d b 2 ~ ~ ~  
e 2 2 2 2 2 2  
- 0 2 / ~ ~ ~



W:

~le!ct 2 ~h!

L:

1 0 2, 0, 1 ~ 0!

es 9 p 16 ~ 0,

26 v ~ 26 2 p 0.

1 2 1 ~ 1 eqh

1 2 1 ~ 0 0 1 - 0.

g d



W:

cs! cs!

ci f m o,

i v 2x - 2x 2x

E v!

L:

Dies irae, dies illa

Solvat saeculum in favilla.

*[Handwritten flourish]*

W 2 b:

n. b. d!

i. Co. L!

i. h. u!

- e 2y,

o p u

f l a n

E g l e,

u s!

W:

ci 2x cs!

v; o n i n v

~ n o f,

p 2 2 y

*Handwritten cursive letters: r, b, g.*

*2:*

Judex ergo cum sedebit,  
Quidquid latet adparebit,  
Nil inultum remanebit.

*Wh:*

*Handwritten cursive letters: v, r, n!*

*Handwritten cursive letters: r, n, l, e, n*

*Handwritten cursive letters: d, n, v!*

*Handwritten cursive letters: e, p, a*

*Handwritten cursive letters: n, v!, m, v!*

*Handwritten cursive letters: u, o, v, b:*

*Handwritten cursive letters: u, n, v!, e - y, e*

*Handwritten cursive letters: u, d, l, e, n.*

*Handwritten cursive letters: p, r, l, i.*

*Handwritten cursive letters: c, o, e!*

*2:*

Quid sum miser tunc dicturus?  
Quem patronum rogaturus?  
Cum vix justus sit securus.

Uo 2 b:

△/oe

~√/e a.

re or j √ 2,

je 9 ~

os!

2:

Quid sum miser tunc dicturus?

Wh:

~Pw! → lph!

6 lph → wh.

WALPURGISNACHT

27.11.1980

4.11.80

11.11.80

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11.11.80  
11.11.80  
11.11.80



abgibt, paring  
° ~ n r e l p n 4 2  
- u g h, e r u t e r p  
~ ~ ~ ~ ~ l e n t!  
v, e i ~ N l u!  
e t o r, e, e n f l.  
z e i ~ l e t e r, d j l e n?  
c o - e y - m o - e n?  
- d - y - s t e a s!

Nl.

o b l, z l, v p n,  
~ ~ ~ ~ ~ j p n,  
~ p n p n s d.

df lo.

! ! ! e n t ~ r p n p n.  
v ~ l e, i o l e n t!  
o d u, p o l e n t e.

Nl.

~ ~ ~ c, r l ~ z l 2,  
-- p m d s d r.  
~ ~ ~ e n t! ~ ~ ~ z p t.  
- c ~ N l j, o r c o °  
- v p - p s t e n.



oe) o lo - oe,  
fu ce, ue,  
i/ju, i/lu;  
o u l u r o n  
fu o l u l o n  
D<sup>2</sup> ce. - r o  
u o l u, p u o,  
p e r o - p, r e l  
- l u o n l u  
z p t z r p n  
j u o n, /

u o v, r i p n  
u r i c r i n?  
e o, e o z / p n,  
l o - l u, i p h  
z h, - l u l u,  
j u n, i) u n.

u l l o.  
l o c u r u p l!  
x i - ~ u l l  
c u l p u o,  
o p u n - u n n.





pu:

uundu,  
ouringu.

2:

—u,u—u!  
bu—u—u!  
—u—u,  
eu—u.

pu:

chundu.

pu:

—u!  
eu—u,  
—u!

pu:

—u!  
cou—u!

pu:

—u  
eu—u!

Sh, Z:

o: l, o: n,  
co: el ~ l ~ n?  
u: gl, u: ng,  
e: ce gl, u: gl.

Sh, Z:

1. gl, 2. gl, 2. gl,  
1. gl, 2. gl  
u: n, 1. gl, 2. gl,  
e: ce gl, 2. gl

re 2. gl:

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

gl: (1. gl)

1. gl, 2. gl, 2. gl, 2. gl!

gl: (1. gl)

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





12/28 ~  
- ~ ~ ~ ~

Li: Li:

1. od ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~

ve: ve:

- ~ ~ ~ ~  
- ~ ~ ~ ~  
- ~ ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~

df: df:

e ~ ~ ~ ~  
e ~ ~ ~ ~  
e ~ ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~  
~ ~ ~ ~

Q: Q:

~ ~



df. 60.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

6:

2. 2. 2. 2. 2. 2.

2. 2. 2. 2. 2. 2.

df. 60.

juv. 10 p. l. n. n. t. j. n. i.  
2. b. a. n. n. o. r. e. o. i.

~ n. n. e. j. 2. 1. 2. 1. 2.

2. i. b. e. l. o. x. n. e. j. 2.

6. e. j. z. e. i. b. n. d. z. y. r. 2. i.

2. n. e. b. e. p. l.

2. 6. v. j. c. o. d. y. 2.

c. 1. 1. - u. i. z. 2. 1. 2. 1.

n. i. t. ! s. l. z. n. i. j. l. z.

1. v. i. c. u. - e. j. b. i. l. u.

j. n. i. z. n. e. n. e. n. o. f. i.

1. s. z. n. c. o. d. l. r. z. n. e. i.

1. s. d. j. c. 1. j. z. y. i. 2. l. e.

1. o. o. r. j. p. l. - t. r. e. b. i.

p. r. e. n. i. t. e. r. 2. 1. 2.

2. n. i.

c. v. s. n. n. ~ h. i.

2. z. 2. j. l. o. p. i.

e. v. i. l. n. o. v. ~ h.

j. n. i. t. e. r. n. e.

2. b. i.

j. f. z. s. 2. s. h. y. c.

1. s. v. i. z. s. i.

e. l. e. s. e. s. 2. 1.

examining.

Gen:

remains

- in all, cor / d;

of the ...

- ...

Li:

... ..

... ..

- ... ..

... ..

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... ..

- ... ..

... ..

Les:

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... ..

- ... ..

... ..





17:

Shunt  
- 2500  
Sleb, Puch,  
eD ~ w 2h.

18: (1.5)

Shunt  
eD ~ w 2h  
Imp  
- 20, a, b, c, d.

19:

1. 2 ~ 15  
2. 2 ~ 20  
2. 1 ~ 10  
c, e, 20, 1/2

20: (1.5)

Shunt  
eD ~ w 2h  
Imp  
- 20, a, b, c, d.

21: (1.5)

Shunt  
eD ~ w 2h



U: (hpc)

1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

U: (hpc):

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

U: (hpc):

ca 1. 1. 1. 1. 1.

U: (hpc):

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

ca 1. 1. 1. 1. 1.

1. huf.

2, 0, 1, - v / p, m;  
d - v o n n, n 2  
- 2 l 2 - v r f f  
u l - d h j y m.

2. huf.

1) 2 / 2 - l f o p,  
e i n, a - j o g l,  
- c u n ) ~ o r f o o p,  
: s 2 b ~ - s 2 b n n d.

j l b, e <sup>2</sup> h y p n i.  
c o s e e z ~ r d h l n,  
e o j h y - t o r?

3.

D: 2 n p r f h  
~ v o r d n e <sup>2</sup> r e.

4. huf.

e: c o s b l e n d n l p s;  
p n, i z o c d l f.  
c h e d, ~ g h y e?

Q:

$\ln 0,1 \approx$

df Co.

Co?

Q:

df, beed

$\sim 60, 70, 80, 90 - \ln p^2$

67/70  $\rightarrow$  5/7,

67/70  $\rightarrow$  67/70.

120 km, ev eb,

$e \cdot 6^2 \approx 216$ .

df Co.

oe  $\rightarrow$  p! a  $\rightarrow$  rec.

i  $\rightarrow$  p! a, a,  $\rightarrow$  k:

p/um; /y:

Spur  $\rightarrow$  p! a  $\rightarrow$  p! a,

$\rightarrow$  'b  $\rightarrow$  p! a;

S'  $\rightarrow$  p! a  $\rightarrow$  p! a.

Q:

$\ln 2, 1, 2, 1, 2,$

$\rightarrow$  rec  $\rightarrow$  2/3.

e, 1/6, 1/2, 1/3,

e  $\rightarrow$  p! a,  $\rightarrow$  1/3.



-  $\text{ord } p \mid n$ .

$\varphi, \sqrt{2}, c_1, \varphi$

$\varphi \text{ ord } 2, \sim \text{ord } 4$ .

$\varphi \text{ ord } 4$ .

$c_1 \sqrt{2} \text{ ord } 4$ ;

$e \text{ ord } 2, e \text{ ord } 4$ .

# WALPURGISNACHTSTRAUM

la

mo-wo

di-ff

mi

unb:

z-z-l-o,

wo-civ-o.

l-w-l-o-l,

e-i-n-f-g-r!

z-l:

e-i-n-f-z-l-

z-l-l-p-l-o-n-s;

n-i-f-u,

e-z-l-i-v-l.

mi:

l-r-z-b, c-i-v,

-f-z-e-n-g-e-i

n-l-i-n-d-r,

b-z-l-o-n-g-l-e-i

Q:

$\sim d \cdot (n-1)E$   
 $- z^2 \sim b_0 \rho \sqrt{z}$ ;  
 $z \sim n \alpha^2$ ;  
 $) D^2 \rho / L^2$

Q:

$\sim \omega d \sim a$   
 $z^2 \sim n \alpha^2$ ;  
 $L^2 \rho \sim a \alpha$ ;  
 $D^2 \rho / L^2$

Q:

$n, i) \sim n \alpha$ ;  
 $n \alpha \sim L^2$ ;  
 $c) \sim n \alpha$ ;  
 $n \alpha \sim L^2$

Q:

$z \sim n \alpha^2$ ;  
 $- b_0 \sim \alpha c$ ;  
 $L^2 \sim D^2 n \alpha$ ;  
 $- \sim n \alpha c$

Q:  $(L^2 \rho)$

$L^2 \rho \sim n \alpha$   
 $L^2 \rho \sim n \alpha$





red:

~ ~ ~ ~ ~  
2nd, 5th  
- 1st, 2nd, 3rd,  
- 1st, 2nd.

red:

ca, 1st, 2nd  
la - 1st, 2nd;  
2nd, 3rd  
jump.

red:

1st, 2nd, 3rd  
1st, 2nd  
- 1st, 2nd, 3rd  
2nd - 1st.

red:

1st - 1st  
1st - 2nd  
2nd, 3rd, 4th  
- 1st, 2nd, 3rd.

red:

1st, 2nd  
2nd, 3rd, 4th

22 l, d r h - p  
- u r l, h

*Lab:*

l r p - r m s  
r p d v l, m t!  
l y r e - b r e s,  
- u d d r r w t!

*Ch: (d' h o)*

p f, a r a f r i  
u d r l z!  
- l p e r, u l e r,  
i s h e p e t z!

*Ch: (d' h o)*

- h) l' l e r s,  
b e j f r,  
- r i v o e r d  
r p i z e f r.

*Le:*

s o r t z r e s,  
l r m p h z p r,  
o r, i z r a s,  
D o r j m.

2. 2. 2.:

o, o b z p l z  
n g z p!  
n r o n b z n,  
b h z z p.

2. 2. 2.:

n z r z h  
p n / m u;  
e l o o b z z  
o z o p h.

2. 2. 2. 2. 2.:

z h n z n c o.  
n, b z p!  
u a n, o z c n o,  
z n n l z h.

2. 2. 2. 2. 2.:

o, o z b g l n z  
n z g z p h.  
z h, c o z h n.  
» g l n l o z h.«

2. 2. 2.:

z n n n n  
- n r h l p;

eroff ~ lura

1) 12 lura

chc:

h, l, lura, 21 v;

is ~ lura;

6 v lura<sup>2</sup> lura

22 lura.

lyi:

eroff ~ lura<sup>2</sup>?

12 v lura.

» lura<sup>2</sup> lura

lura lura.

lyp:

eroff, lura.

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.

lura lura, lura lura

lura lura.

lur:

eroff, lura, lura,

lura lura;

lura lura;

lura lura.

enm:

1. 0 P / M f,  
1. 0 P / M f.  
1. 0 P / M f;  
0 2 6 e o d P L f?

ub:

1. 0 P / M f  
1. 0 P / M f.  
1. 0 P / M f;  
— 0 1 2 2 ~ f.

ub:

1. 0 P / M f  
— 0 1 2 2 ~ f;  
1. 0 P / M f  
1. 0 P / M f.

enm-ub:

1. 0 P / M f  
— 0 1 2 2 ~ f;  
1. 0 P / M f  
1. 0 P / M f.

enm:

1. 0 P / M f  
— 0 1 2 2 ~ f.



mpc:

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

$R_{p1} = -L_{p1}$

$R_{p2} R_{p3} L_{p4}$

$a \sigma^2 v, s, u$

rb:

$G - G' - \sqrt{m}!$

$- m, \sqrt{m} p$

$\sqrt{m} m, \sqrt{m} p$

$o \sigma^2 G \sigma^2$

G:

$m | - \sigma^2 s$

$a \sigma^2 m$

$- \sigma^2 m \sigma^2 m$

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

rb:

$m, m \sigma^2$

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

$L_{m2} \sigma^2 p$

$s \sigma^2 \sigma^2!$

rb:  $(a \sigma^2)$

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

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

*Handwritten cursive text: "H R - R R",*

*Handwritten cursive text: "-o f f u."*





alg. lo.

~ 17 E ~ 17 f i o c p, e, c ~ 17 p i o s y l. c u r t h e  
p u f 2 5 c y o / d m n i - b m - b i g e / b i e m r t o r  
s, e e d t i

4:

l q e b o p p v / - m ! v n i ~ 2 o, m a 2 b, i e v /  
g u o o f, i e r z y m b - 2 o, c u r ~ g e p u r v g e i;  
) a z e c e i - a e l e n ) f ?

alg. lo.

10 d e ?

4:

~ 6! e c o e ! ~ 2 o b l y s d s h o e !

alg. lo.

1 n i v e o ~ 2 o / o, o ~ 2 o / h u. m ~ 2 o b l e ~ c u c o, i b 2 o  
e n g f ? e e ?

4 u r d e r p.

alg. lo.

2 b e p 2 e n i c, e ~ 1 e n g l a / p u o e ! ~ p o r  
m i e r j p m, e ~ m u d, ) ~ m u d . d / d e.



NACHT, OFFEN FELD

U, rlf Leo, s zyp. Pen. 0100

U:

coan. entz ~ rpf?

rlf Leo.

01, cob. n. 2 - gln.

U:

gln. s, gln. n, ~ n), (n).

rlf Leo.

— Bp. H.

U:

0 f. n - c. n.

rlf Leo.

u! u!

KERKER

Q2 rezept - a, r omph

Q:

vlb ~ vlx ~ z

vppp ~ vlv

z ~ vlv ~ vlv

- r ~ vlv ~ vlv

q ~ vlv, j ~ vlv!

q ~ vlv, v ~ vlv!

! ~ vlv ~ vlv ~ vlv

v ~ vlv, v ~ vlv:

v ~ vlv, v

v ~ vlv!

v ~ vlv, v

v ~ vlv!

v ~ vlv ~ v

v ~ vlv

v ~ vlv, v

v ~ vlv ~ v ~ vlv;

v ~ vlv, v ~ vlv!



zaid, -ear etc.  
sailonic;  
föding, unff  
lörl - p<sup>2</sup>!  
zvl! co, er p<sup>2</sup>  
orl mola,  
zvl d r n / p<sup>2</sup>!

Q:

c<sub>1</sub> ~ h sp<sup>2</sup>!

www:

10 ~ 2/2 ~ v.  
orl - d e r d h m.  
12/ - 9 2/2;  
6 m v, 2 v / m m,  
- a m, 1 / 2/2.  
- 200<sup>c</sup>, 1, 1, 1.  
6 6 m d s v! : 10 1 ~ h!  
~ 1 2/2 10 1,  
a 2 6 e z<sup>2</sup>!

Q: (orl) 7 7

~ ver d or / 10,  
1 h m l / 10 10.

www: (all) / 12

— 0 1 2 3 4 5 6 7 8 9 10 11 12

0! 1! 2! 3!

4! 5!

6! 7! 8!

9!

10! 11!

12!

Q: (1)

12! 11!

www: (ana)

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!

Q:

1 2!





- 20 20 20 20

20 20 20 20 20 20

20 20 20 20 20 20

20 20 20 20

- 20 20 20 20 20 20

20 20

20 20 20

20 20 20

- 20 20 20 20 20 20

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20 20 20 20

20

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20 20 20 20 20 20

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20

20 20 20 20

www:

g r b, l o n o,  
s t e r p e r z o.  
a n d, e e d v / z f?  
- c b e r, u l e, c e y d b i

q:

n d n i z c l, d n l.

www:

v r n z i y l l,  
u n d e r i h t l.  
a - / e r - v p p d?  
e r d. m e y b! i z e - n.  
r e x e l i n h t  
e r x e l m d, u b l l?  
c f o d! o r p e s,  
i b h.  
D r z! c o r e y p!  
g r ~ e n ~,  
i u d p h!

q:

s e m i n n o,  
e y b d r z.

www:

~, 9, 26, 8, 2, 1!  
 ~, 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.

U:

6, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 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.

www:

120?

U:

100.

www:

· e h e o,

· s / ' l e, - r u!

S r n o r d z u

- c m p f

g r b n l ? , z u l , v l u!

U:

g r ! - - - - - ! , r p l h!

www:

i e k l l ; l v p . 9 / z h

c o z l l , b i z i b s n d v s .

i - r e , u n j v o

- J e r r u a p o!

i - r e , i h e z h

- b e r p d d h!

U:

i b r l e r

www:

p e i p e i

r e n n o r t e!

p i m ~ o r

n d a s,

s ~ p,

$\tilde{c} \sim c \sim 2$ ,  
 $\tilde{m}, c, \tilde{m} \sim g$ ,  
 $\tilde{r} \sim \checkmark$ .  
 $\tilde{b} \sim \checkmark!$   
 $\tilde{-} \sim \checkmark$ ,  
 $\tilde{-} \sim \checkmark!$   
 $\tilde{-} \sim \checkmark!$

4:

$\tilde{w} \sim \checkmark!$   
 $\tilde{-} \sim \checkmark, \tilde{-} \sim \checkmark!$

www:

$\tilde{c} \sim \checkmark \sim \tilde{w} \sim \checkmark!$   
 $\tilde{e} \sim \checkmark \sim \tilde{r} \sim \checkmark$ ,  
 $\tilde{-} \sim \checkmark \sim \tilde{r} \sim \checkmark!$   
 $\tilde{e} \sim \checkmark \sim \tilde{r} \sim \checkmark$   
 $\tilde{-} \sim \checkmark \sim \tilde{r} \sim \checkmark$   
 $\tilde{b} \sim \checkmark, \tilde{b} \sim \checkmark, \tilde{r} \sim \checkmark$ ,  
 $\tilde{b} \sim \checkmark \sim \tilde{r}, \tilde{b} \sim \checkmark \sim \tilde{r}$ .  
 $\tilde{b} \sim \checkmark, \tilde{b} \sim \checkmark \sim \tilde{r}$   
 $\tilde{-} \sim \checkmark \sim \tilde{r} \sim \checkmark!$

4:

$\tilde{z} \sim \checkmark \sim \tilde{b}, \tilde{z} \sim \checkmark \sim \tilde{b}$ ,  
 $\tilde{-} \sim \checkmark \sim \tilde{b}, \tilde{-} \sim \checkmark \sim \tilde{b}$ .

www:

o v l i m , i e n p d !  
l o v l i - r e d n !  
o d , i e h e o f p e .

q:

\ n h ! d h ! d h !

www:

n ! h , - ' n ! j n e d 2 ;  
w z j n d , o !  
o n o c , e e j u d h c h .  
o v r n y !  
i n p d !  
r e j e o ;  
n / v n y .  
i v n d ) , w z d b l .  
' G , i w  
w o l b o .  
i z v d , e j d h d .  
o b v d e n - c n !  
j h f v , j h d .  
j h d d e n n  
i j h , i n d r e j d .  
j e d , d o e h !

Q:

— c n p n!

df Co. (y/Co)

s! a r e n.

o p n! j e n - G e n!

z B e j e n

' z m e n s.

WWT:

co g t e<sup>2</sup> l e n z z

y y g r n!

co - ' n<sup>2</sup> z z n n!

- v!

Q:

e<sup>o</sup> n!

WWT:

p r z n! o r z v p n n!

df Co. (y/Co)

n n! n! n! o p r r p.

WWT:

e v n, s n! n v!

r n! r z n n z n,



nt sp, v, uan!  
2 v! v! o.

rlf lo.

6: p!

pr: (S m)

i p!

rlf lo. (j l)

2/v!

ge 12 l.

pr: (S m, s, o)

2 v! 2 v!







