



Logarithmen I

Berechne.

- | | |
|---|--|
| 1.) $5^{\log 125} = \underline{\hspace{2cm}}$ | $6^{\log 216} = \underline{\hspace{2cm}}$ |
| 2.) $2^{\log 4} = \underline{\hspace{2cm}}$ | $10^{\log 100} = \underline{\hspace{2cm}}$ |
| 3.) $4^{\log 64} = \underline{\hspace{2cm}}$ | $7^{\log 49} = \underline{\hspace{2cm}}$ |
| 4.) $3^{\log 81} = \underline{\hspace{2cm}}$ | $2^{\log 32} = \underline{\hspace{2cm}}$ |
| 5.) $13^{\log 169} = \underline{\hspace{2cm}}$ | $7^{\log 343} = \underline{\hspace{2cm}}$ |
| 6.) $12^{\log 144} = \underline{\hspace{2cm}}$ | $11^{\log 121} = \underline{\hspace{2cm}}$ |
| 7.) $4^{\log 256} = \underline{\hspace{2cm}}$ | $6^{\log 36} = \underline{\hspace{2cm}}$ |
| 8.) $12^{\log 144} = \underline{\hspace{2cm}}$ | $11^{\log 121} = \underline{\hspace{2cm}}$ |
| 9.) $9^{\log 81} = \underline{\hspace{2cm}}$ | $2^{\log 32} = \underline{\hspace{2cm}}$ |
| 10.) $2^{\log 4} = \underline{\hspace{2cm}}$ | $3^{\log 81} = \underline{\hspace{2cm}}$ |
| 11.) $2^{\log \frac{1}{8}} = \underline{\hspace{2cm}}$ | $9^{\log \frac{1}{81}} = \underline{\hspace{2cm}}$ |
| 12.) $3^{\log \frac{1}{81}} = \underline{\hspace{2cm}}$ | $13^{\log \frac{1}{169}} = \underline{\hspace{2cm}}$ |
| 13.) $10^{\log \frac{1}{100}} = \underline{\hspace{2cm}}$ | $4^{\log \frac{1}{16}} = \underline{\hspace{2cm}}$ |
| 14.) $2^{\log \frac{1}{32}} = \underline{\hspace{2cm}}$ | $12^{\log \frac{1}{144}} = \underline{\hspace{2cm}}$ |
| 15.) $7^{\log \frac{1}{49}} = \underline{\hspace{2cm}}$ | $3^{\log \frac{1}{243}} = \underline{\hspace{2cm}}$ |
| 16.) $2^{\log \frac{1}{4}} = \underline{\hspace{2cm}}$ | $2^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$ |
| 17.) $4^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$ | $3^{\log \frac{1}{9}} = \underline{\hspace{2cm}}$ |
| 18.) $5^{\log \frac{1}{125}} = \underline{\hspace{2cm}}$ | $5^{\log \frac{1}{25}} = \underline{\hspace{2cm}}$ |
| 19.) $2^{\log \frac{1}{16}} = \underline{\hspace{2cm}}$ | $3^{\log \frac{1}{27}} = \underline{\hspace{2cm}}$ |
| 20.) $7^{\log \frac{1}{343}} = \underline{\hspace{2cm}}$ | $8^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$ |



Logarithmen I

Lösungen

Berechne.

$$3 / 3$$

$$2 / 2$$

$$3 / 2$$

$$4 / 5$$

$$2 / 3$$

$$2 / 2$$

$$4 / 2$$

$$2 / 2$$

$$2 / 5$$

$$2 / 4$$

$$-3 / -2$$

$$-4 / -2$$

$$-2 / -2$$

$$-5 / -2$$

$$-2 / -5$$

$$-2 / -6$$

$$-3 / -2$$

$$-3 / -2$$

$$-4 / -3$$

$$-3 / -2$$



Berechne.

1.) ${}_3\log 9 = \underline{\hspace{2cm}}$ ${}_3\log 27 = \underline{\hspace{2cm}}$

$${}_3\log 27 = \underline{\hspace{2cm}}$$

2.) ${}_2\log 8 = \underline{\hspace{2cm}}$

$${}_3\log 243 = \underline{\hspace{2cm}}$$

3.) ${}_2\log 16 = \underline{\hspace{2cm}}$

$${}_5\log 25 = \underline{\hspace{2cm}}$$

4.) ${}_7\log 49 = \underline{\hspace{2cm}}$

$${}_{12}\log 144 = \underline{\hspace{2cm}}$$

5.) ${}_4\log 256 = \underline{\hspace{2cm}}$

${}_4\log 16 = \underline{\hspace{2cm}}$

6.) ${}_7\log 343 = \underline{\hspace{2cm}}$

$${}_2\log 64 = \underline{\hspace{2cm}}$$

7.) ${}_5\log 125 = \underline{\hspace{2cm}}$

$${}_6\log 216 = \underline{\hspace{2cm}}$$

8.) ${}_6 \log 36 = \underline{\hspace{2cm}}$

$$10^{\log 100} = \underline{\hspace{2cm}}$$

9.) $_{13}\log 169 = \underline{\hspace{2cm}}$

$$_4\log 64 = \underline{\hspace{2cm}}$$

10.) ${}_8\log 64 = \underline{\hspace{2cm}}$

$${}_3\log 81 = \underline{\hspace{2cm}}$$

11.) $8^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$

$$3^{\log \frac{1}{27}} = \underline{\hspace{2cm}}$$

12.) $7^{\log \frac{1}{49}} = \underline{\hspace{2cm}}$

$$3^{\log \frac{1}{243}} = \underline{\hspace{2cm}}$$

13.) $4^{\log \frac{1}{256}} = \underline{\hspace{2cm}}$

$${}_3\log \frac{1}{81} = \underline{\hspace{2cm}}$$

14.) $2^{\log \frac{1}{8}} = \underline{\hspace{2cm}}$

$$6^{\log \frac{1}{216}} = \underline{\hspace{2cm}}$$

15.) $5^{\log \frac{1}{25}} = \underline{\hspace{2cm}}$

$$4^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$$

16.) $4^{\log \frac{1}{16}} = \underline{\hspace{2cm}}$

$$9^{\log \frac{1}{81}} = \underline{\hspace{2cm}}$$

17.) $7^{\log \frac{1}{343}} = \underline{\hspace{2cm}}$

$$11 \log \frac{1}{121} = \underline{\hspace{2cm}}$$

18.) $10^{\log \frac{1}{100}} = \underline{\hspace{2cm}}$

$${}_3\log \frac{1}{9} = \underline{\hspace{2cm}}$$

19.) $2^{\log \frac{1}{4}} = \underline{\hspace{2cm}}$

$$2^{\log \frac{1}{32}} = \underline{\hspace{2cm}}$$

20.) $2^{\log \frac{1}{16}} = \underline{\hspace{2cm}}$

$$13^{\log \frac{1}{169}} = \underline{\hspace{2cm}}$$



Logarithmen II

Lösungen

Berechne.

$$2 / 3$$

$$3 / 5$$

$$4 / 2$$

$$2 / 2$$

$$4 / 2$$

$$3 / 6$$

$$3 / 3$$

$$2 / 2$$

$$2 / 3$$

$$2 / 4$$

$$-2 / -3$$

$$-2 / -5$$

$$-4 / -4$$

$$-3 / -3$$

$$-2 / -3$$

$$-2 / -2$$

$$-3 / -2$$

$$-2 / -2$$

$$-2 / -5$$

$$-4 / -2$$



Logarithmen III

Berechne.

- | | | |
|------|--|--|
| 1.) | $3^{\log 9} = \underline{\hspace{2cm}}$ | $6^{\log 216} = \underline{\hspace{2cm}}$ |
| 2.) | $4^{\log 64} = \underline{\hspace{2cm}}$ | $3^{\log 81} = \underline{\hspace{2cm}}$ |
| 3.) | $9^{\log 81} = \underline{\hspace{2cm}}$ | $2^{\log 16} = \underline{\hspace{2cm}}$ |
| 4.) | $12^{\log 144} = \underline{\hspace{2cm}}$ | $2^{\log 64} = \underline{\hspace{2cm}}$ |
| 5.) | $3^{\log 243} = \underline{\hspace{2cm}}$ | $2^{\log 8} = \underline{\hspace{2cm}}$ |
| 6.) | $8^{\log 64} = \underline{\hspace{2cm}}$ | $2^{\log 32} = \underline{\hspace{2cm}}$ |
| 7.) | $13^{\log 169} = \underline{\hspace{2cm}}$ | $3^{\log 27} = \underline{\hspace{2cm}}$ |
| 8.) | $7^{\log 343} = \underline{\hspace{2cm}}$ | $4^{\log 256} = \underline{\hspace{2cm}}$ |
| 9.) | $11^{\log 121} = \underline{\hspace{2cm}}$ | $7^{\log 49} = \underline{\hspace{2cm}}$ |
| 10.) | $4^{\log 16} = \underline{\hspace{2cm}}$ | $6^{\log 36} = \underline{\hspace{2cm}}$ |
| 11.) | $2^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$ | $12^{\log \frac{1}{144}} = \underline{\hspace{2cm}}$ |
| 12.) | $5^{\log \frac{1}{125}} = \underline{\hspace{2cm}}$ | $6^{\log \frac{1}{36}} = \underline{\hspace{2cm}}$ |
| 13.) | $12^{\log \frac{1}{144}} = \underline{\hspace{2cm}}$ | $2^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$ |
| 14.) | $2^{\log \frac{1}{4}} = \underline{\hspace{2cm}}$ | $3^{\log \frac{1}{27}} = \underline{\hspace{2cm}}$ |
| 15.) | $13^{\log \frac{1}{169}} = \underline{\hspace{2cm}}$ | $3^{\log \frac{1}{9}} = \underline{\hspace{2cm}}$ |
| 16.) | $4^{\log \frac{1}{256}} = \underline{\hspace{2cm}}$ | $2^{\log \frac{1}{16}} = \underline{\hspace{2cm}}$ |
| 17.) | $5^{\log \frac{1}{25}} = \underline{\hspace{2cm}}$ | $3^{\log \frac{1}{243}} = \underline{\hspace{2cm}}$ |
| 18.) | $2^{\log \frac{1}{32}} = \underline{\hspace{2cm}}$ | $9^{\log \frac{1}{81}} = \underline{\hspace{2cm}}$ |
| 19.) | $4^{\log \frac{1}{64}} = \underline{\hspace{2cm}}$ | $2^{\log \frac{1}{8}} = \underline{\hspace{2cm}}$ |
| 20.) | $12^{\log \frac{1}{144}} = \underline{\hspace{2cm}}$ | $7^{\log \frac{1}{343}} = \underline{\hspace{2cm}}$ |



Logarithmen III

Lösungen

Berechne.

$$2 / 3$$

$$3 / 4$$

$$2 / 4$$

$$2 / 6$$

$$5 / 3$$

$$2 / 5$$

$$2 / 3$$

$$3 / 4$$

$$2 / 2$$

$$2 / 2$$

$$-6 / -2$$

$$-3 / -2$$

$$-2 / -6$$

$$-2 / -3$$

$$-2 / -2$$

$$-4 / -4$$

$$-2 / -5$$

$$-5 / -2$$

$$-3 / -3$$

$$-2 / -3$$