

1. Berechne:

a) $7^x = 2401$

$x = \frac{\ln b}{\ln a}$

b) $9^x = \frac{1}{59049}$

$x =$

2. Berechne:

a) $3^x = 243$

$x = \frac{\ln b}{\ln a}$

b) $9^x = \frac{1}{729}$

$x =$

3. Berechne:

a) $6,0^x = 0,0277778$

$x =$

b) $5,0^x = 625$

$x =$

4. Berechne:

a) $5,5^x = 27680,640625$

$x =$

b) $4,5^x = 0,0493827$

$x =$

5. Berechne:

a) $4,71^x = 656$

$x = \approx 4,18546$

b) $6,6^x = 954$

$x \approx$

6. Berechne:

a) $3,01^x = 54$

$x = \approx 3,61996$

b) $6,38^x = 195$

$x \approx$

7. Berechne:

a) $3,85^x = 177$

7. $x = \approx 3,83967$

b) $7,88^x = 591$

$x \approx$

8. Berechne:

a) $10^x = 1000$

8. $x =$

b) $10^x = 31622,7766017$

$x =$

9. Berechne:

a) $10^x = 100000$

9. $x =$

b) $10^x = 0,001$

$x =$

1. Berechne:

a) $7^x = 2401$

$x = \frac{\ln b}{\ln a} = 4$

b) $9^x = \frac{1}{59049}$

$x = -5$

2. Berechne:

a) $3^x = 243$

$x = \frac{\ln b}{\ln a} = 5$

b) $9^x = \frac{1}{729}$

$x = -3$

3. Berechne:

a) $6,0^x = 0,0277778$

$x = \frac{\ln b}{\ln a} = -2$

b) $5,0^x = 625$

$x = 4$

4. Berechne:

a) $5,5^x = 27680,640625$

$x = \frac{\ln b}{\ln a} = 6$

b) $4,5^x = 0,0493827$

$x = -2$

5. Berechne:

a) $4,71^x = 656$

$x = \frac{\ln b}{\ln a} \approx 4,18546$

b) $6,6^x = 954$

$x \approx 3,63562$

6. Berechne:

a) $3,01^x = 54$

$x = \frac{\ln b}{\ln a} \approx 3,61996$

b) $6,38^x = 195$

$x \approx 2,8454$

7. Berechne:

a) $3,85^x = 177$

7. L
 $x = \frac{\ln b}{\ln a} \approx 3,83967$

b) $7,88^x = 591$

$x \approx 3,09147$

8. Berechne:

a) $10^x = 1000$

8. L
 $x = \log b = 3$

b) $10^x = 31622,7766017$

$x = \log b = 4,5$

9. Berechne:

a) $10^x = 100000$

9. L
 $x = \log b = 5$

b) $10^x = 0,001$

$x = \log b = -3$