



Logarithms - Quotient Property - Difference to Division as Fraction (Variables)

1 Convert the given logarithm to its equivalent based on the quotient property

$$\log_x z - \log_x t$$

A $\log_x \frac{t}{z}$

B $\log_t \frac{x}{z}$

C $\log_x \frac{z}{t}$

2 Convert the given logarithm to its equivalent based on the quotient property

$$\log_q x - \log_q p$$

A $\log_q \frac{x}{p}$

B $\log_p \frac{q}{x}$

C $\log_q \frac{p}{x}$

3 Convert the given logarithm to its equivalent based on the quotient property

$$\log_t n - \log_t x$$

A $\log_t \frac{x}{n}$

B $\log_t \frac{n}{x}$

C $\log_x \frac{t}{n}$

4 Convert the given logarithm to its equivalent based on the quotient property

$$\log_p z - \log_p t$$

A $\log_p \frac{t}{z}$

B $\log_t \frac{p}{z}$

C $\log_p \frac{z}{t}$

5 Convert the given logarithm to its equivalent based on the quotient property

$$\log_t p - \log_t q$$

A $\log_t \frac{q}{p}$

B $\log_t \frac{p}{q}$

C $\log_q \frac{t}{p}$

6 Convert the given logarithm to its equivalent based on the quotient property

$$\log_n r - \log_n y$$

A $\log_n \frac{y}{r}$

B $\log_y \frac{n}{r}$

C $\log_n \frac{r}{y}$

7 Convert the given logarithm to its equivalent based on the quotient property

$$\log_m t - \log_m y$$

A $\log_m \frac{y}{t}$

B $\log_y \frac{m}{t}$

C $\log_m \frac{t}{y}$

8 Convert the given logarithm to its equivalent based on the quotient property

$$\log_m z - \log_m p$$

A $\log_m \frac{p}{z}$

B $\log_p \frac{m}{z}$

C $\log_m \frac{z}{p}$