

Logarithm - Solve

L1MS3

Solve for x.

Example 1:

$$\log_3 \left(\frac{1}{3} \right) = x$$

$$3^x = \left(\frac{1}{3} \right)$$

$$3^x = 3^{-1}$$

$$x = -1$$

Example 2:

$$\log_{25} 5^{-3} = x$$

$$25^x = 5^{-3}$$

$$5^{2x} = 5^{-3}$$

$$x = -\frac{3}{2}$$

Solve for x.

1) $\log_{49} 7 = x$

x =

2) $\log_x 81^{\frac{1}{2}} = 2$

3) $\log_{81} \left(\frac{1}{3} \right) = x$

x =

5) $\log_{\frac{1}{32}} \left(\frac{1}{2} \right) = x$

x =

7) $\log_x 5 = \left(\frac{1}{2} \right)$

x =

9) $\log_8 x = 3$

x =

10) $\log_x 2^{-4} = -1$

x =

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