

Logarithm - Solve

L1ES4

Solve for x.

Example 1:

$$\log_4 \left(\frac{1}{256} \right) = x$$

$$4^x = \frac{1}{256}$$

$$4^x = 4^{-4}$$

$$x = -4$$

Example 2:

$$\log_8 x = 2$$

$$2^8 = x$$

$$x = 64$$

Solve for x.

1) $\log_2 \left(\frac{1}{64} \right) = x$

x =

2) $\log_4 x = 3$

3) $\log_x 4 = \frac{1}{2}$

x =

5) $\log_x 8 = 3$

x =

7) $\log_3 x = 4$

x =

9) $\log_{81} x = \frac{1}{4}$

x =

10) $\log_3 \left(\frac{1}{27} \right) = x$

x =

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