(Logarithm - Solve)

L1ES1

Solve for x.

Example 1:

$$log_5 25 = x$$

 $5^x = 25$
 $5^x = 5^2$

Example 2:

$$\log_4 x = 2$$

$$4^2 = x$$

$$x = 16$$

Solve for x.

1)
$$\log_x 32 = 5$$

2)
$$\log_3 x = 3$$

$$X = \bigcirc$$

3)
$$\log_3\left(\frac{1}{81}\right) = x$$

4)
$$\log_5\left(\frac{1}{25}\right) = x$$

$$X =$$

5)
$$\log_x 36 = 2$$

6)
$$\log_2 x = 4$$

7)
$$\log_9 x = \frac{1}{2}$$

$$X = ($$

8)
$$\log_x 2 = \frac{1}{3}$$

$$X = \bigcirc$$

9)
$$\log_6 x = 2$$

$$x =$$

(10)
$$\log_4 256 = x$$

$$x = ($$

Logarithm - Solve

L1ES1

Solve for x.

Example 1:

$$\log_5 25 = x$$
$$5^x = 25$$

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

Example 2:

$$\log_4 x = 2$$

$$4^2 = x$$

Solve for x.

1) $\log_x 32 = 5$

2) $\log_3 x = 3$

$$x =$$
 27

3)
$$\log_3\left(\frac{1}{81}\right) = x$$

$$x = \begin{pmatrix} -4 \end{pmatrix}$$

4)
$$\log_5\left(\frac{1}{25}\right) = x$$

$$x = \begin{pmatrix} -2 \end{pmatrix}$$

5)
$$\log_x 36 = 2$$

$$x = 6$$

6) $\log_2 x = 4$

7)
$$\log_9 x = \frac{1}{2}$$

8)
$$\log_{x} 2 = \frac{1}{3}$$

9)
$$\log_6 x = 2$$