Name:

Score:

Logarithm - Solve

L2MS2

Solve for x.

Example 1:

$$\log_3\left(\frac{1}{3}\right) = x - 5$$

$$(3)^{x - 5} = \left(\frac{1}{3}\right)$$

$$(3)^{x - 5} = 3^{-1}$$

$$\log_{8} (2x)^{3} = 2$$

$$8^{2} = (2x)^{3}$$

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

$$4 = 2x$$

$$x = 2$$

Solve for x.

1)
$$\log_{36} 6 = x+3$$

2)
$$\log_{3x} 64 = 2$$

x = (

PREVIEW

Gain complete access to the largest

collection of worksheets in all subjects!

3) $\log_{32}\left(\frac{1}{4}\right) = x-1$

Members, please log in to download this worksheet. Not a member?
Please sign up to
gain complete
access.

7) $\log_{x+1} 16 = 4$

5) $\log_{\frac{1}{32}} \left(\frac{x}{8} \right) = \frac{1}{5}$

www.mathworksheets4kids.com

$$X = \bigcirc$$

9)
$$\log_9(x-1) = 3$$

$$x =$$

10)
$$\log_{2x} 2^{-4} = 2$$

$$x = ($$