Logarithm - Solve

Solve for x.

Example 1:

$$\log_2 x = 3$$
$$2^3 = x$$
$$x = \mathbf{8}$$

Example 2:

$$\log_2\left(\frac{1}{8}\right) = x$$
$$2^x = \frac{1}{8}$$
$$2^x = 2^{-3}$$
$$x = \mathbf{-3}$$

Solve for x.

1) $\log_3 27 = x$

x =

2) $\log_4 x = 2$

3) $\log_9\left(\frac{1}{81}\right) = x$

x =

5) $\log_x 100 = 2$

x =

7) $\log_{16} x = \frac{1}{2}$

x =

x =

9) $\log_7 x = 2$

x =

10) $\log_x 64 = 2$

x =