

## Inverse Functions - Logs and Exponential Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the inverse of each function.**

1)  $y = \log_5 (-3x)$

2)  $y = -\log_6 x$

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

4)  $y = 6 \log_5 x$

5)  $y = e^x + 6$

6)  $y = -\frac{6^x}{3}$

7)  $y = -\frac{e^x}{3}$

8)  $y = e^x - 9$

9)  $y = \log_2 (x + 5)$

10)  $y = \log_4 x + 10$

11)  $y = \log_2 x - 10$

12)  $y = \ln (x + 10)$

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Date \_\_\_\_\_ Period \_\_\_\_\_

**Find the inverse of each function.**

1)  $y = \log_5 (-3x)$

2)  $y = -\log_6 x$

$$y = -\frac{5^x}{3}$$

$$y = \frac{1}{6^x}$$

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

4)  $y = 6 \log_5 x$

$$y = \frac{1}{\frac{x}{2^3}}$$

$$y = 5^{\frac{x}{6}}$$

5)  $y = e^x + 6$

6)  $y = -\frac{6^x}{3}$

$$y = \ln(x - 6)$$

$$y = \log_6 -3x$$

7)  $y = -\frac{e^x}{3}$

8)  $y = e^x - 9$

$$y = \ln -3x$$

$$y = \ln(x + 9)$$

9)  $y = \log_2 (x + 5)$

10)  $y = \log_4 x + 10$

$$y = 2^x - 5$$

$$y = 4^{x-10}$$

11)  $y = \log_2 x - 10$

12)  $y = \ln(x + 10)$

$$y = 2^{x+10}$$

$$y = e^x - 10$$