

Unit 5 Day 3 Lotto Problems

Find the inverse of each function.

1) $y = 8 \log_5 x$

2) $y = \log_x 3 + 6$

3) $y = 3 \log_5 x$

4) $y = 9 \log_6 x$

5) $y = \ln(-2x)$

6) $y = -5 \log_6 x$

7) $y = \log_2 3^x$

8) $y = \log_4(-3x)$

9) $y = \log_6 x + 9$

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

Unit 5 Day 3 Lotto Problems

Find the inverse of each function.

1) $y = 8 \log_5 x$

$$y = 5^{\frac{x}{8}}$$

2) $y = \log_x 3 + 6$

$$y = 3^{\frac{1}{x-6}}$$

3) $y = 3 \log_5 x$

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

4) $y = 9 \log_6 x$

$$y = 6^{\frac{x}{9}}$$

5) $y = \ln(-2x)$

$$y = -\frac{e^x}{2}$$

6) $y = -5 \log_6 x$

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

7) $y = \log_2 3^x$

$$y = \log_3 2^x$$

8) $y = \log_4(-3x)$

$$y = -\frac{4^x}{3}$$

9) $y = \log_6 x + 9$

$$y = 6^{x-9}$$

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

$$y = -x$$