

Finding Inverses of Logarithms and Exponentials

© 2013 Kuta Software LLC. All rights reserved.

Find the inverse of each function.

1) $y = \log_3 x$

2) $y = \log_{\frac{1}{4}} x$

3) $y = \log_x 5$

4) $y = \ln x$

5) $y = \log_x 3$

6) $y = \log_2 x$

7) $y = \log_6 (4x)$

8) $y = -2\log_5 x$

9) $y = \log_3 (x + 1)$

10) $y = \log_2 x^5$

11) $y = \log_4 (x + 8)$

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

13) $y = 10\log_4 x$

14) $y = \log_{\frac{1}{3}} (x - 5)$

15) $y = \log_4 x + 5$

16) $y = \log_2 (2x)$

17) $y = \log_5 x - 8$

18) $y = \log_5 (3x)$

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

20) $y = 5^x$

21) $y = 2^x$

22) $y = 6^x$

23) $y = 3^x$

24) $y = 4^x$

25) $y = \frac{3^x}{2}$

26) $y = 4^{\frac{x}{4}}$

27) $y = \log_4 3^x$

28) $y = 4^x + 9$

29) $y = -\frac{1}{2 \cdot 4^x}$

30) $y = 2^x - 10$

31) $y = 2^x - 5$

32) $y = \frac{2^x}{4}$

33) $y = \frac{7 \cdot 3^x + 1}{3^x}$

34) $y = 6^x - 4$

35) $y = \frac{2^x}{3}$

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