Convert to logarithmic form.

$2^4 = 16$

$3^2 = 9$

$10^3 = 1000$

$5^3 = 125$

$7^0 = 1$

$8^{1/3} = 2$

Convert the exponential form.

$\log_2 32 = 5$

$\log_5 25 = 2$

$\log_9 81 = 2$

$\log_{16} 4 = \frac{1}{2}$

$\log_2 \frac{1}{4} = -2$

$\log_{49} 7 = \frac{1}{2}$

Rewrite and Solve.

$\log_x 25 = 2$

$\log_6 x = 2$

$\log_4 2 = x$

$\log_3 x = -1$

$\log_{12} x = 1$

$\log_{10} 0.001 =$

Solve each logarithmic equation:

1. $\log_3(4 - x) = \log_3(x + 8)$

2. $\log_4(x + 2) = \log_4(55)$

3. $\log_2(2x + 1) = \log_2(15)$

4. $\log_5(x + 1) = \log_5(2x + 7)$

5. $\log_3(x + 2) = \log_3(3x - 5)$

6. $\log_7(x + 3) = \log_7(5x - 8)$

19. $\log_2(x + 5) = -1$

20. $\log_3(x - 2) = 3$

21. $\log_2(2 + 3x) = 0$

22. $\log_2(2x + 1) = 4$

23. $\log_4(17x - 4) = 3$

24. $\log_4(x - 1) = -2$