

No Calculators!!

Rewrite in log base 10.

1. $\log_a 3$ 2. $\log_5 25$ 3. $\log_7 22$ 4. $\log_8 16$

Find the inverse of each function.

5. $a(x) = 5x + 2$ 6. $b(x) = \frac{x+1}{5}$ 7. $c(x) = \frac{x}{7} - 2$ 8. $d(x) = \frac{6}{x-4}$

Solve for x .

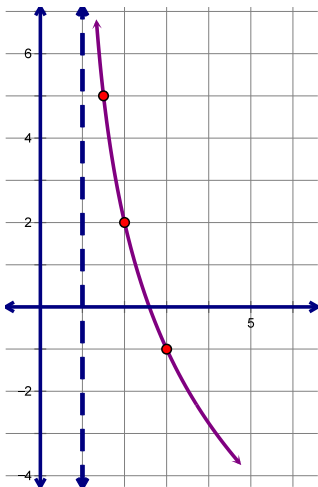
9. $\log_4 64 = x$ 10. $\log_x 3 = \frac{1}{3}$ 11. $\log_{16} 2 = x$ 12. $\log_7 x = -2$

Sketch a complete graph.

13. $m(x) = \log_3(x+2) - 3$ 14. $w(x) = \log_4(-x) + 1$

Find the equation of the logarithmic function.

15. Base 2



16. Base 5

