

Algebra 2
Graphing Logs

Name: _____
Period: _____

Graph each function. Then state the domain and range.

1. $a(x) = \log_3 x$

2. $b(x) = 2 + \log_2 x$

3. $c(x) = \log_2 (x - 3)$

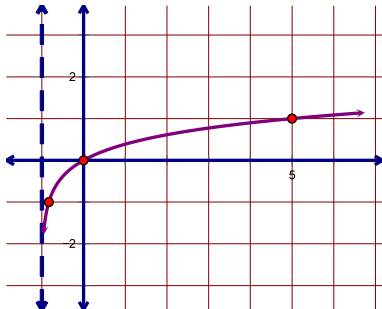
4. $d(x) = -\log_5 x$

5. $f(x) = \log_4 (-x)$

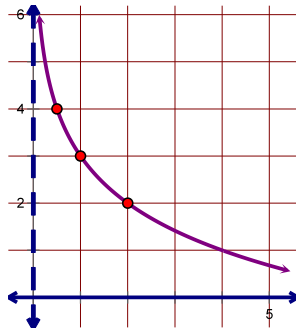
6. $g(x) = -2 + \log(x + 1)$

Find the equation of each graph.

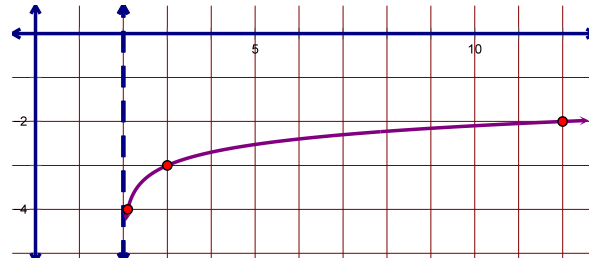
7. Base 6



8. Base 2



9. Base 10



Simplify.

10. $\log 10,000,000$

11. $\log_2 64$

12. $\log_3 \frac{1}{27}$

13. $\log_4 64$

14. $\log_6 1$

15. $\log_{16} 4$

Rewrite in exponential form, the solve for x .

16. $\log_x \frac{1}{8} = -3$

17. $\log_4 x = -1$

18. $\log_x 3 = \frac{1}{2}$

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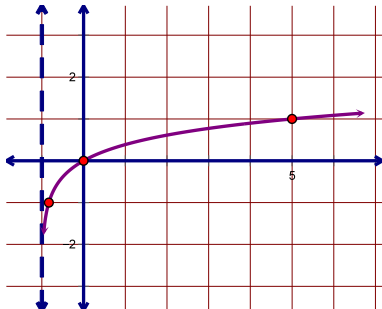
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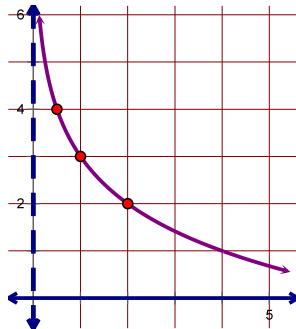
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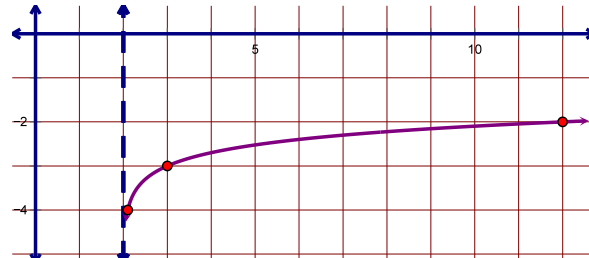
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