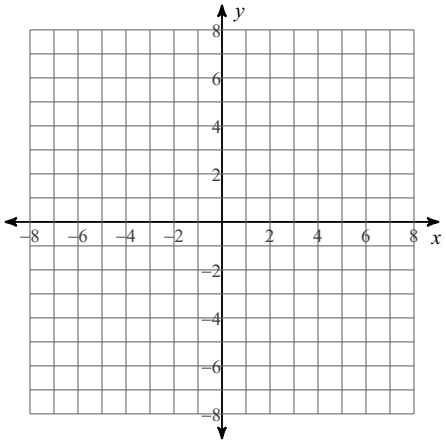
Algebra 2 Name_____

Graphing Log Functions

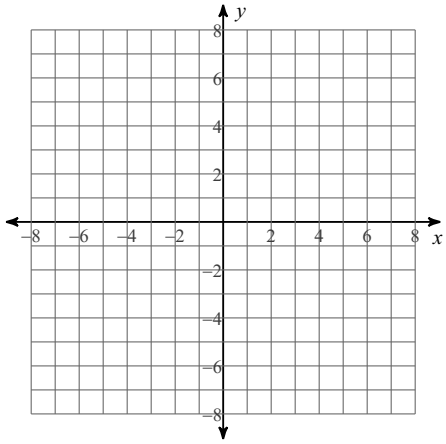
Date_____ Period____

Identify the domain and range of each. Then sketch the graph.

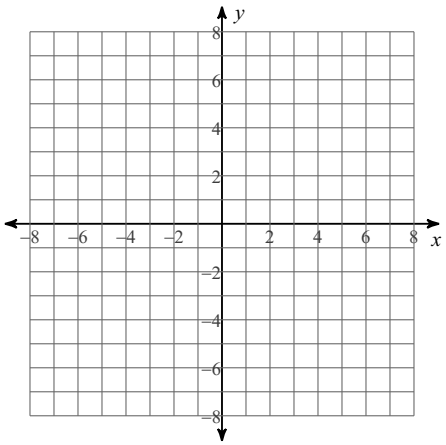
1) $y = \log_2 (x - 1) - 3$



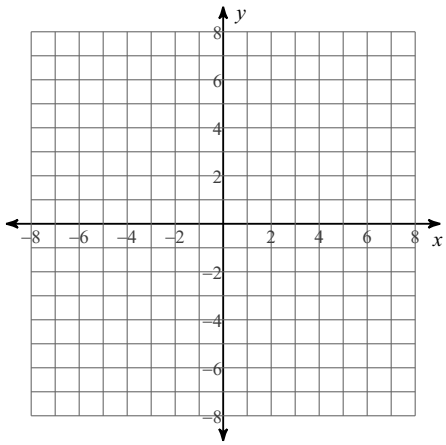
2) $y = \log_2 (x + 3) - 5$



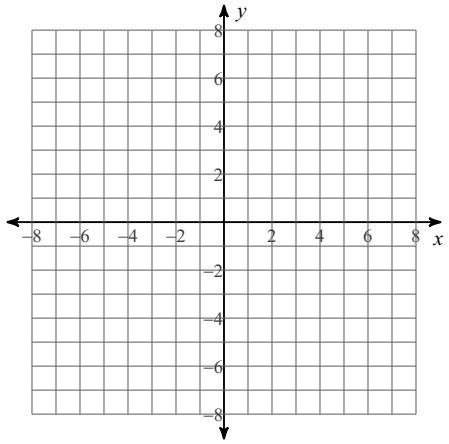
3) $y = \log_2 (x - 1) + 3$



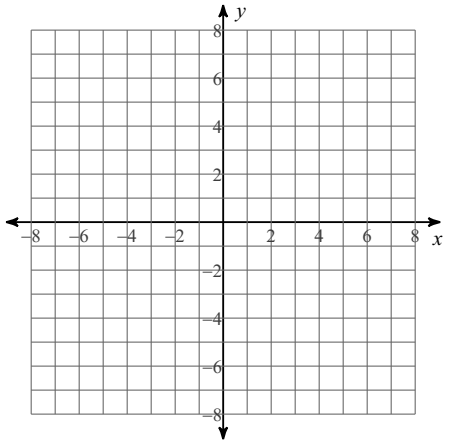
4) $y = \log_2 (x - 1) + 2$



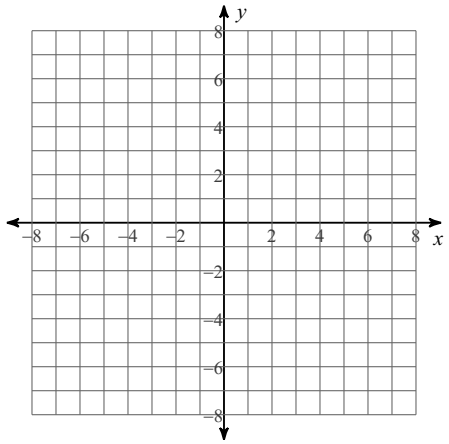
5) $y = \log_2 (x - 1) - 2$



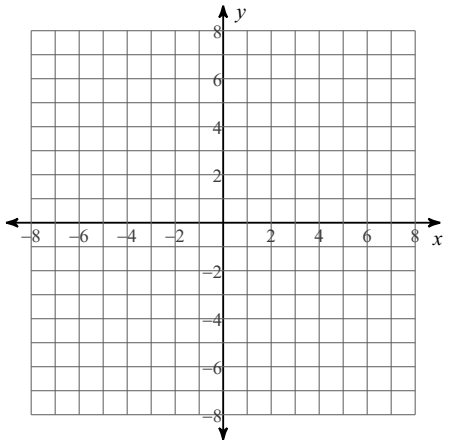
6) $y = \log_2 (x + 4) + 2$



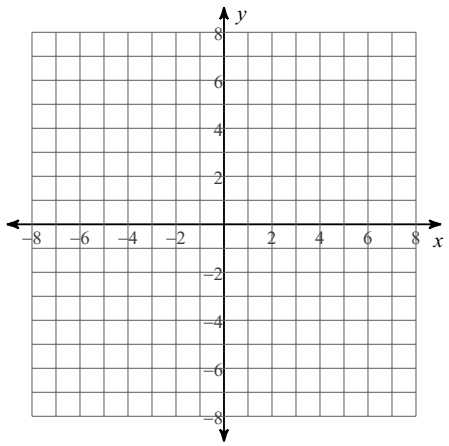
7) $y = \log_2 (x - 1) + 4$



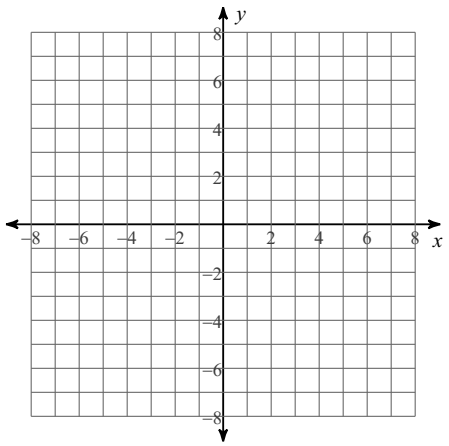
8) $y = \log_2 (x + 5) - 2$



9) $y = \log_2 (x - 1) - 4$

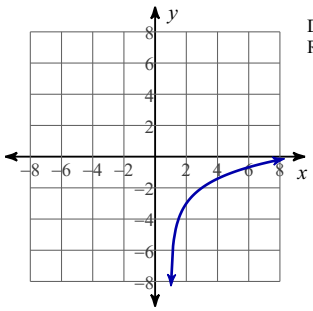


10) $y = \log_2 (x - 3) + 2$



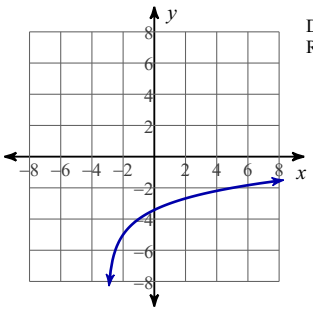
Answers to Graphing Log Functions

1)



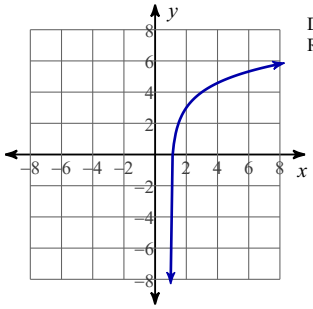
Domain: $x > 1$
Range: All reals

2)



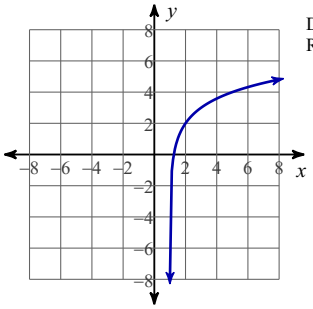
Domain: $x > -3$
Range: All reals

3)



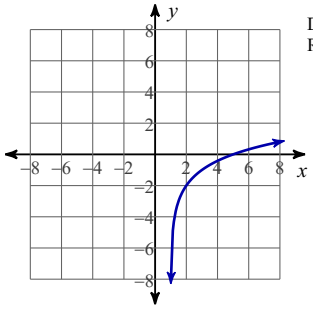
Domain: $x > 1$
Range: All reals

4)



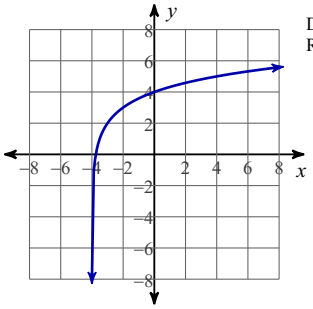
Domain: $x > 1$
Range: All reals

5)



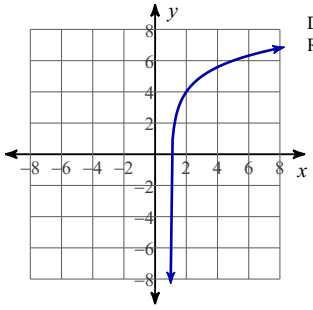
Domain: $x > 1$
Range: All reals

6)



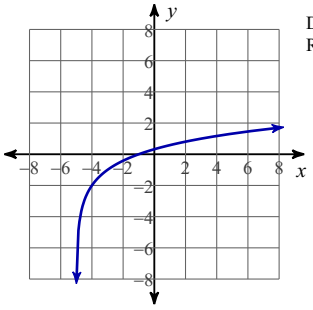
Domain: $x > -4$
Range: All reals

7)



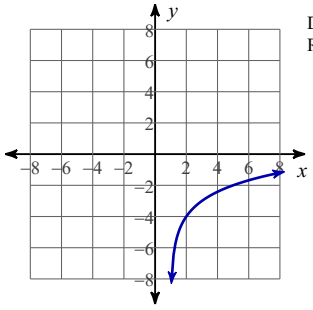
Domain: $x > 1$
Range: All reals

8)



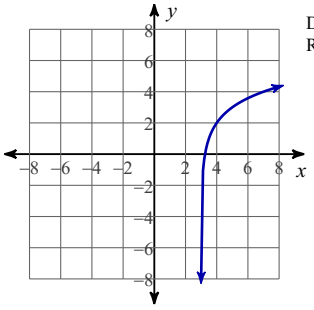
Domain: $x > -5$
Range: All reals

9)



Domain: $x > 1$
Range: All reals

10)



Domain: $x > 3$
Range: All reals