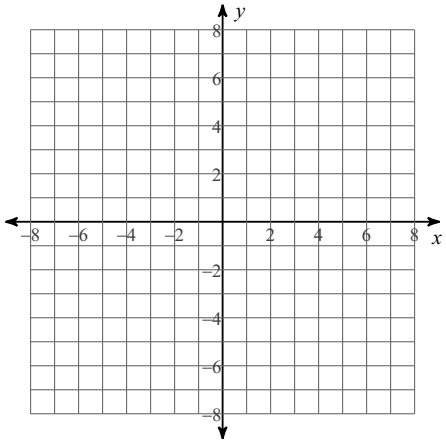
Graph Logarithmic Functions

Name_____

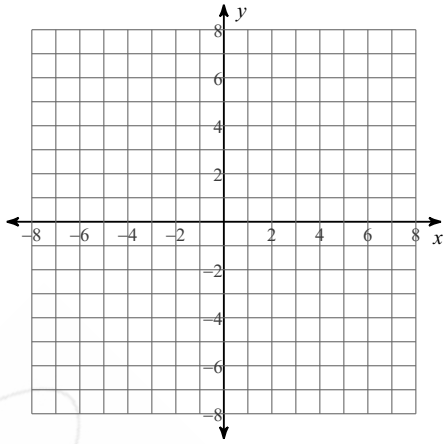
Date_____

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

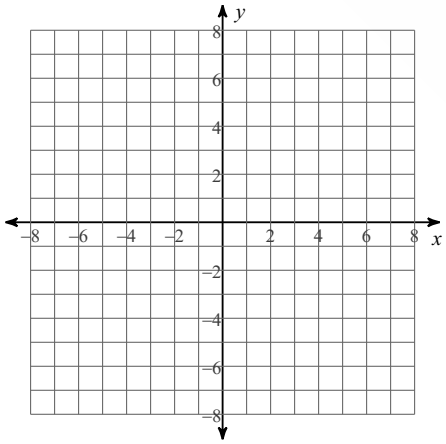
1) $y = \log_5 (x - 2) + 4$



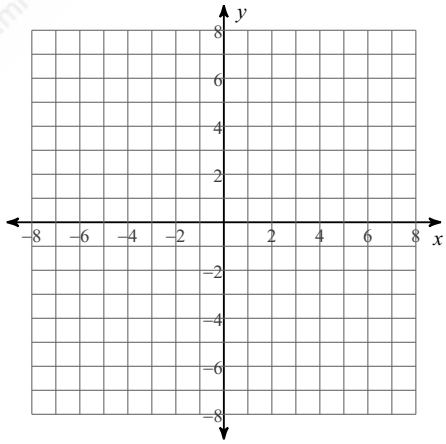
2) $y = \log_3 (x + 2) + 3$



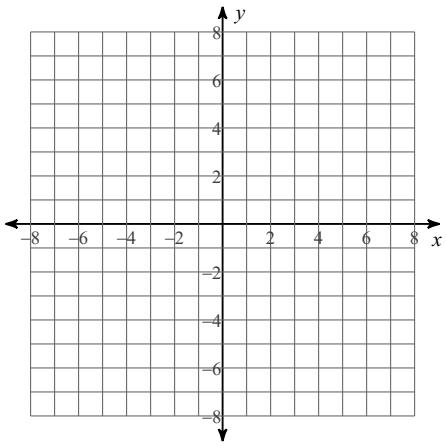
3) $y = \log_2 (x - 3) - 3$



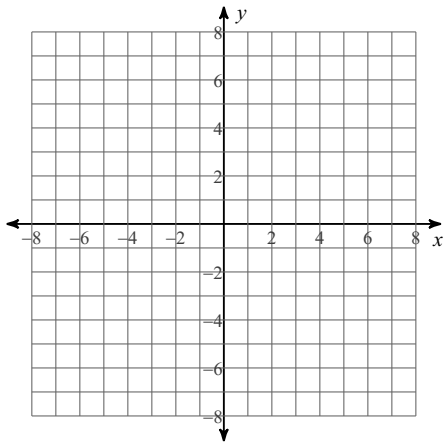
4) $y = \log_4 (x - 1) - 5$



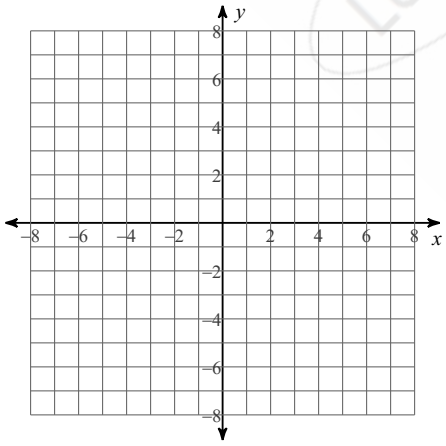
5) $y = \log_5 (x + 6) + 1$



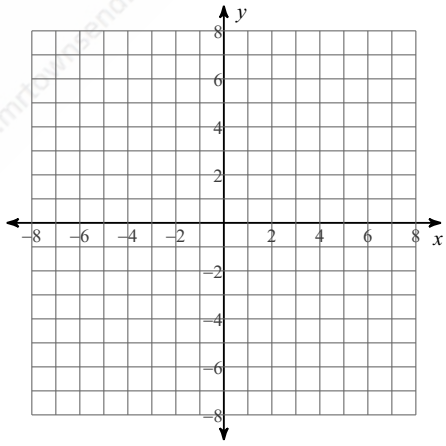
6) $y = \log_2 (x + 4) + 1$



7) $y = \log_3 (x - 1) - 2$

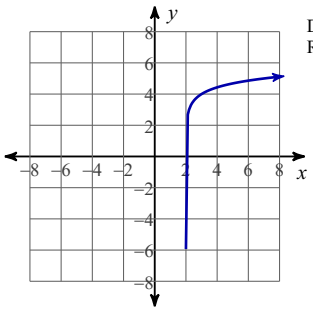


8) $y = \log_4 (x + 6) + 2$



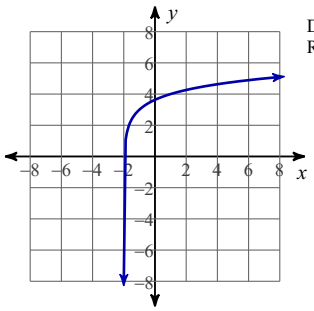
Answers to Graph Logarithmic Functions

1)



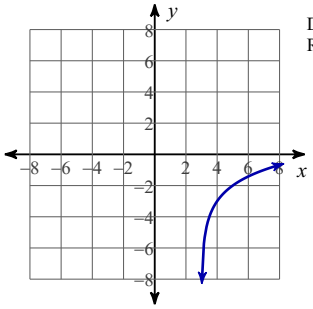
Domain: $x > 2$
Range: All reals

2)



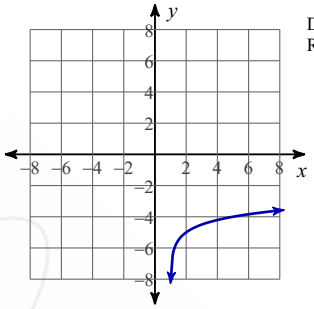
Domain: $x > -2$
Range: All reals

3)



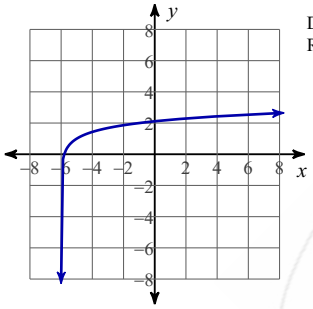
Domain: $x > 3$
Range: All reals

4)



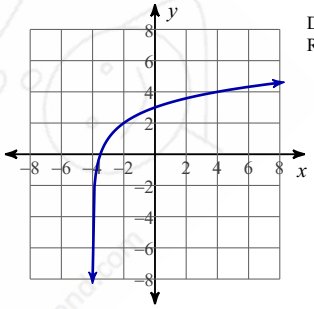
Domain: $x > 1$
Range: All reals

5)



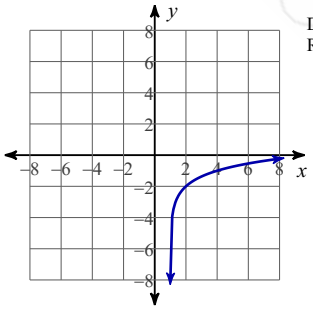
Domain: $x > -6$
Range: All reals

6)



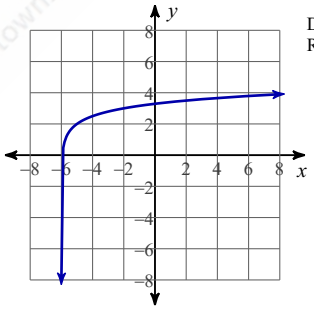
Domain: $x > -4$
Range: All reals

7)



Domain: $x > 1$
Range: All reals

8)



Domain: $x > -6$
Range: All reals