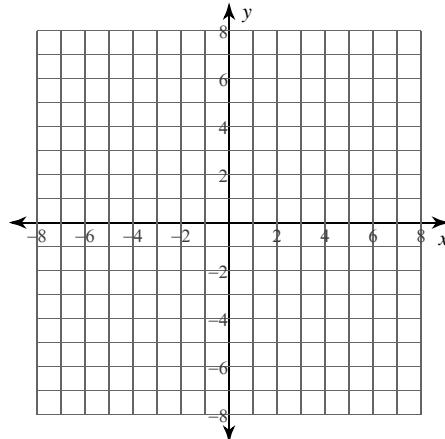
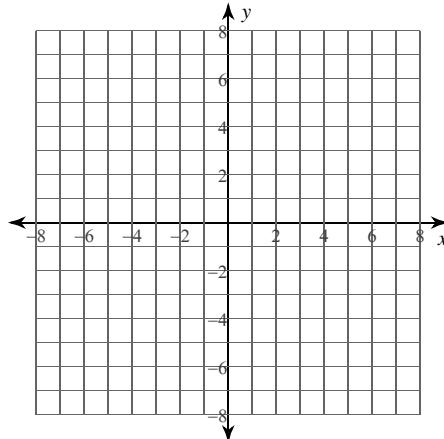


**Graphing Logarithms****Sketch the graph of each function.**

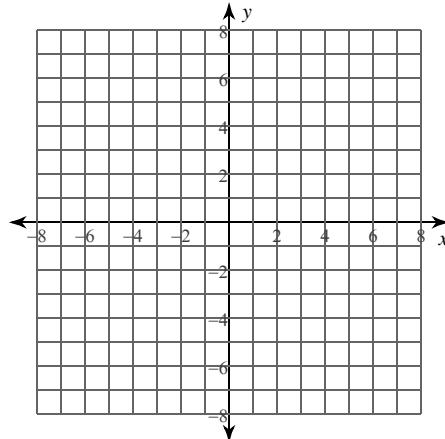
1)  $y = \log(x + 5)$



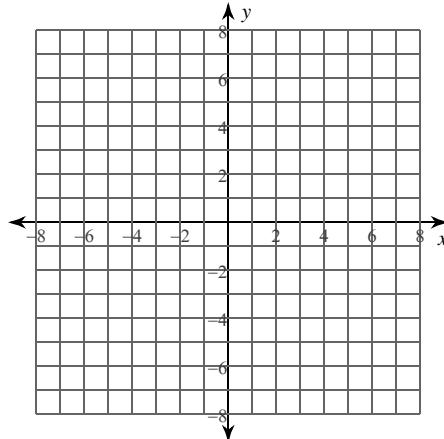
2)  $y = \log(x - 2) - 4$



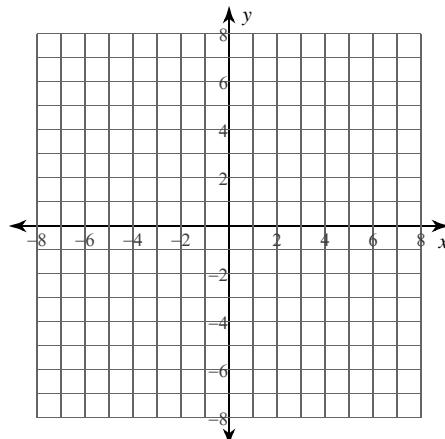
3)  $y = \log(x + 4) - 5$



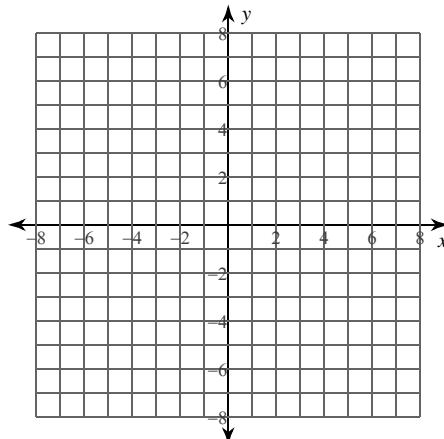
4)  $y = \log(x + 1) - 1$

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

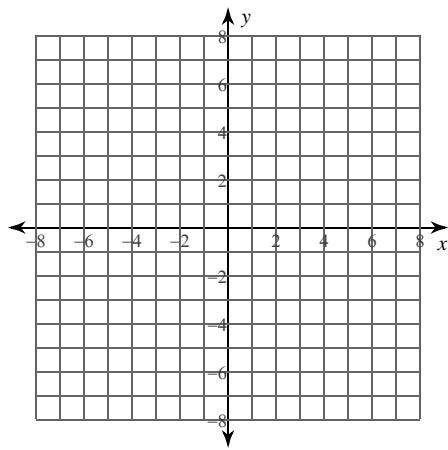
5)  $y = \log_3(x - 1) - 3$



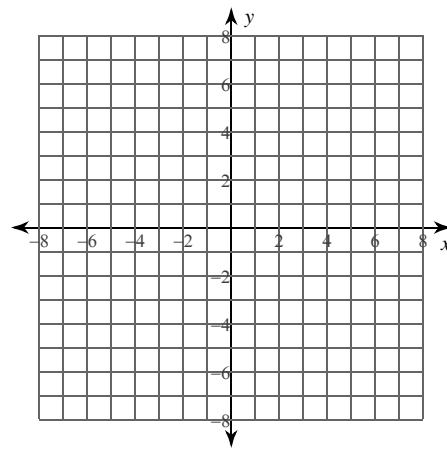
6)  $y = \log_{\frac{1}{3}}(x + 4)$



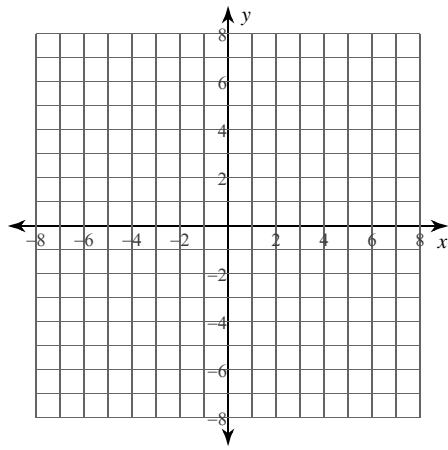
7)  $y = \log_4(x - 1) - 2$



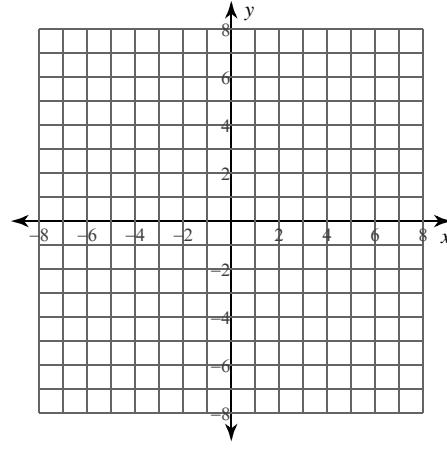
8)  $y = \log_3(x + 6) + 2$



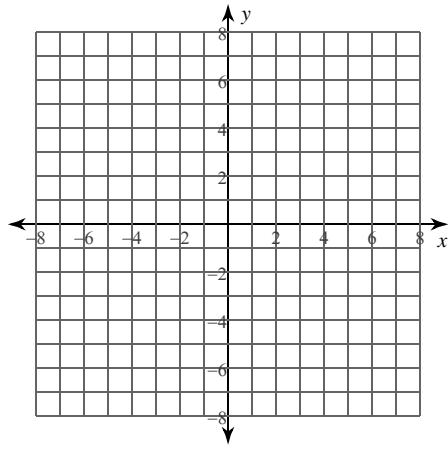
9)  $y = \log_2(4x + 16) - 2$



10)  $y = \log(3x - 4) - 4$



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



12)  $y = \log_2(4x - 8)$

