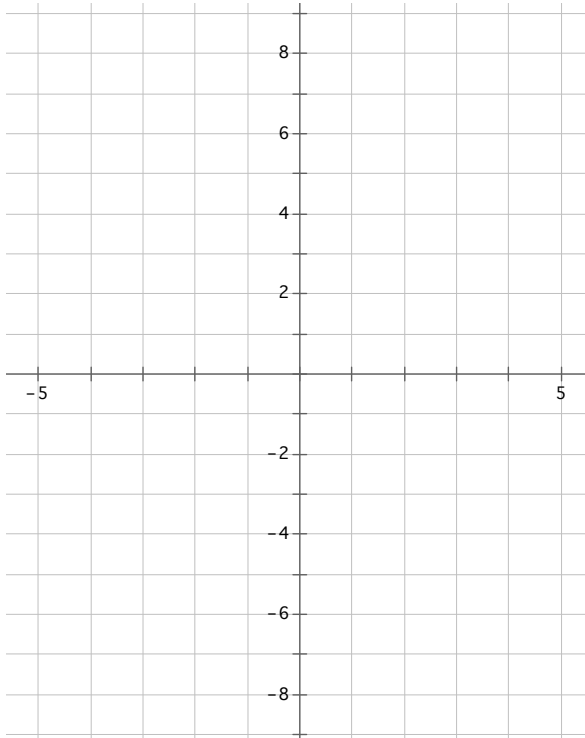
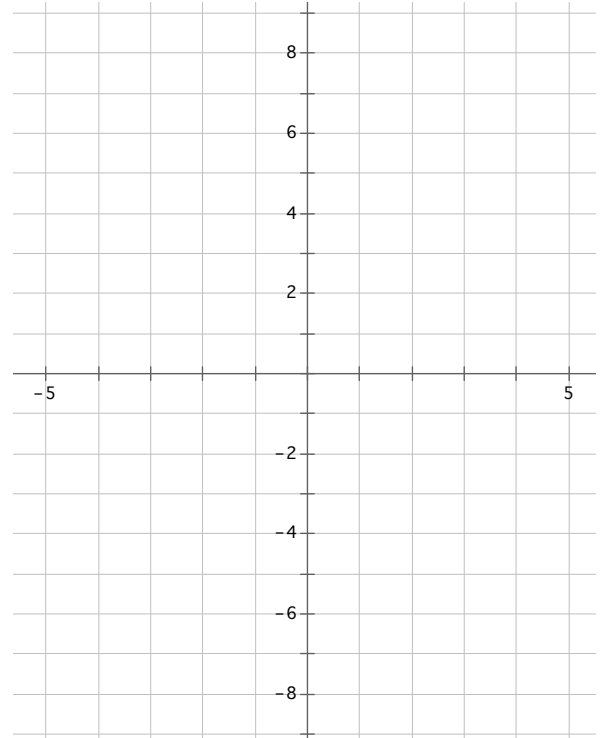


1. Sketch each graph.

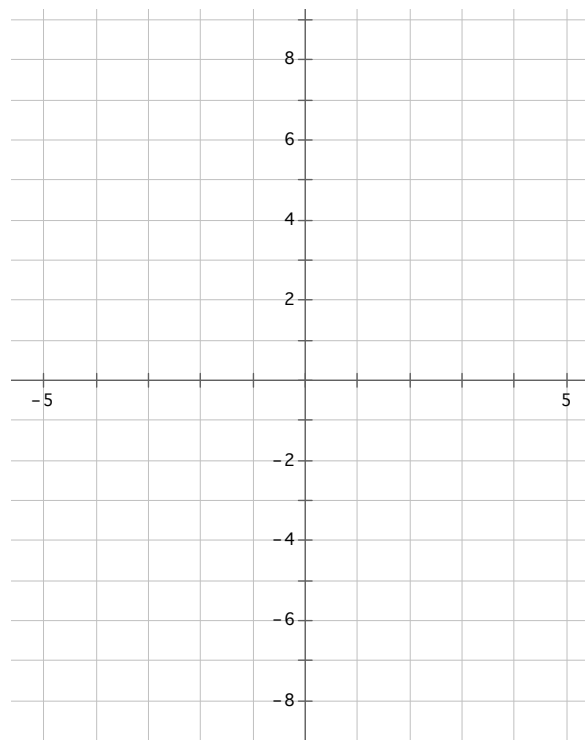
a. $y = \log_2 x$



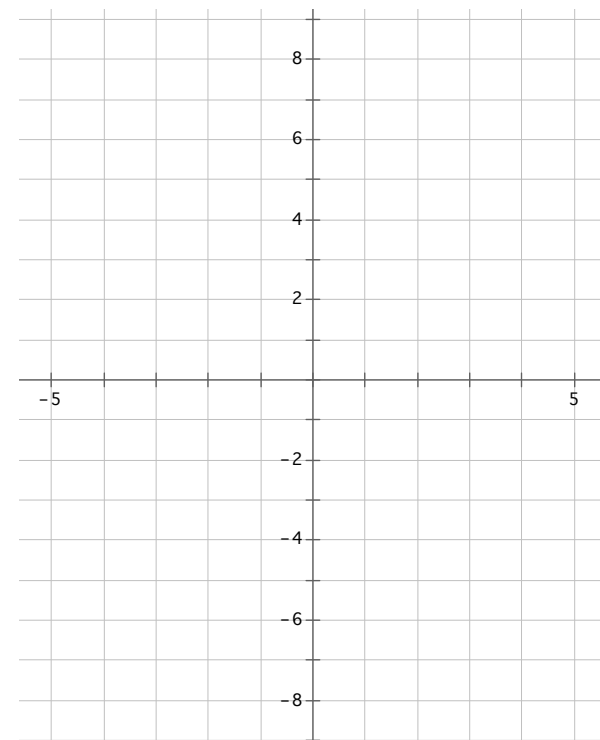
b. $y = \log_3 x - 4$



c. $y = \log_4(x+3) + 2$

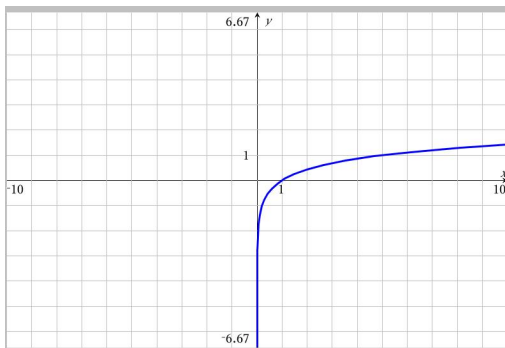


d. $y = \log_{\frac{1}{2}}(x-1) - 3$

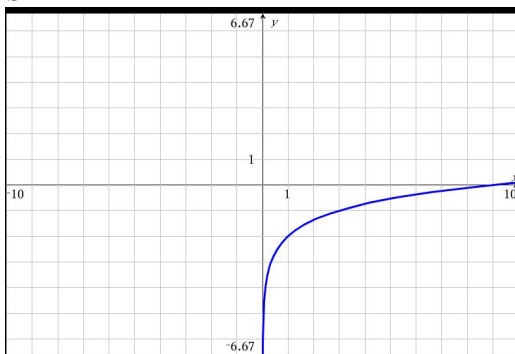


2. Determine the equation of each graph.

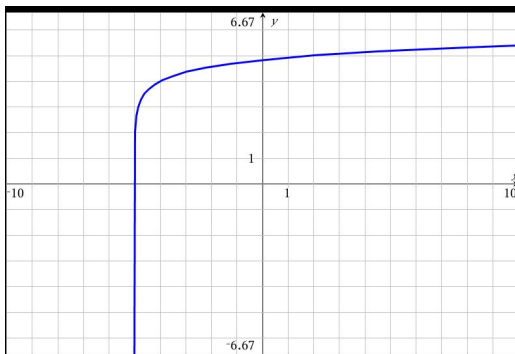
a.



b.



c.



d.

