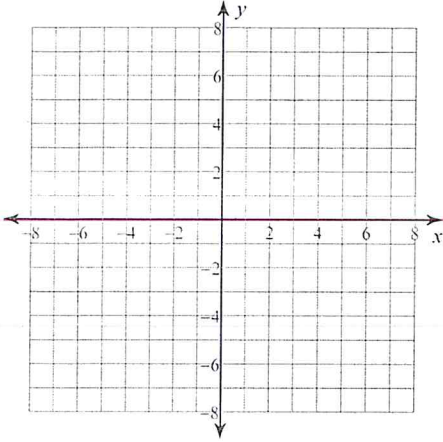


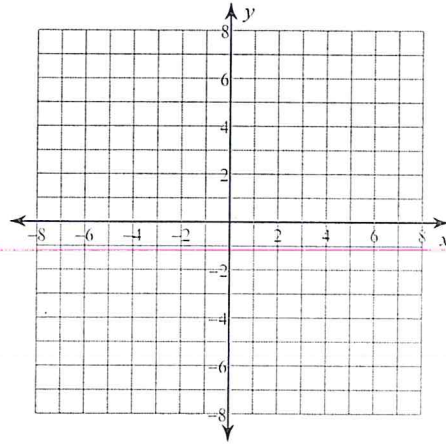
## More Graphing!

Sketch the graph of each function.

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



2)  $y = \log_6(x - 1) - 3$



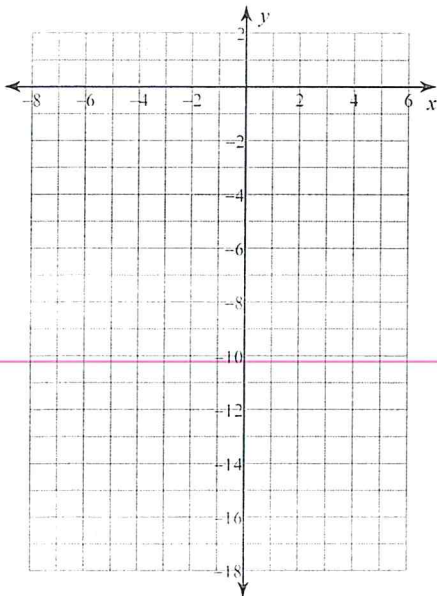
Solve each equation.

3)  $81^{2n} = 27$

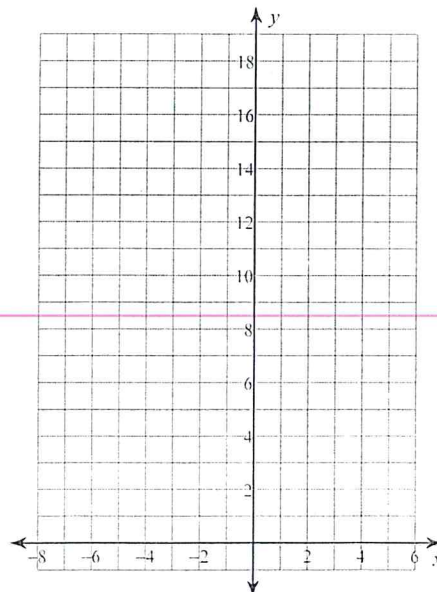
4)  $16^{-2b} = 64$

Sketch the graph of each function.

5)  $f(x) = -3 \cdot 2^{x+1} + 2$

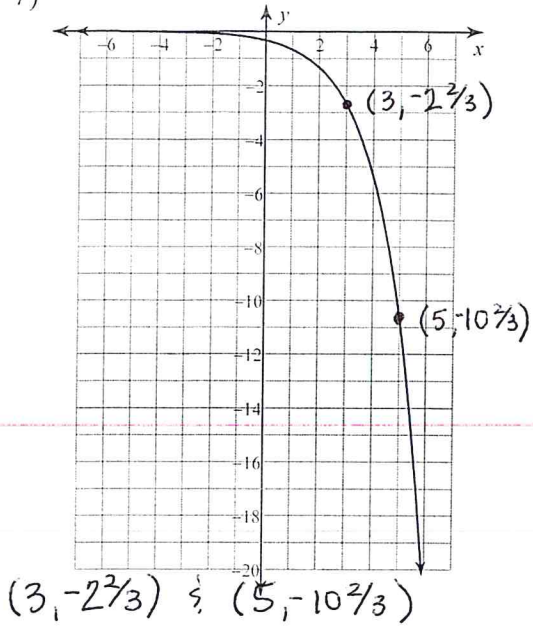


6)  $f(x) = \frac{1}{3} \cdot \left(\frac{1}{4}\right)^{x+1} - 1$

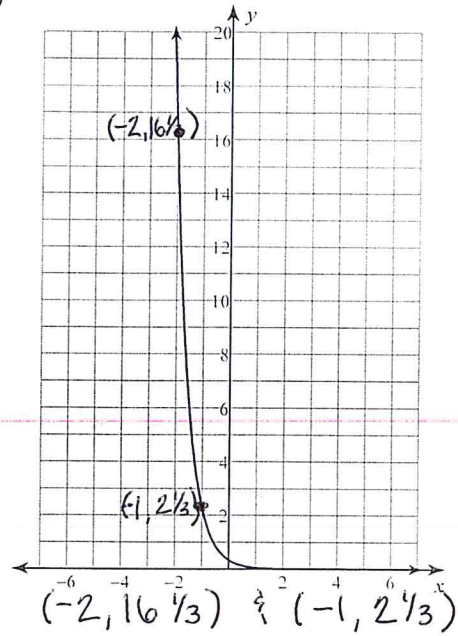


Write an equation for each graph.

7)



8)



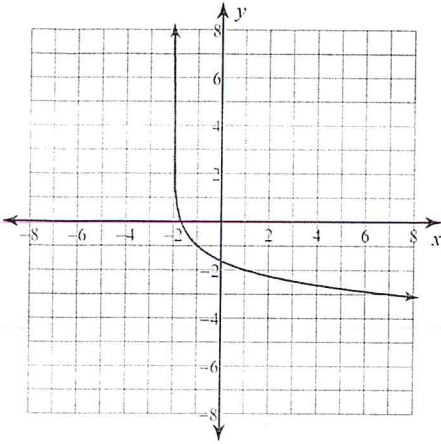
9) Find an equation for the exponential function passing through the points:  $(-1, 5)$  and  $(0.5, 40)$ .

10) Find an equation for the exponential function passing through the points:  $(-1, 2)$  and  $(2, 4)$ .

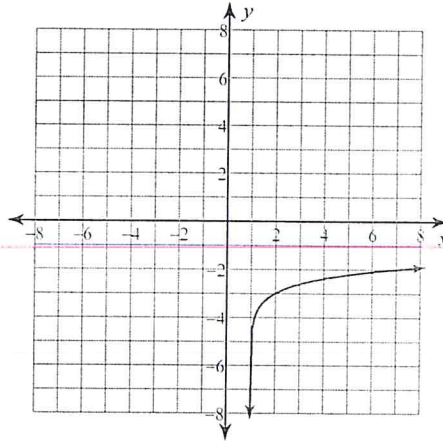
## More Graphing!

Sketch the graph of each function.

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



2)  $y = \log_6(x - 1) - 3$



Solve each equation.

3)  $81^{2n} = 27$

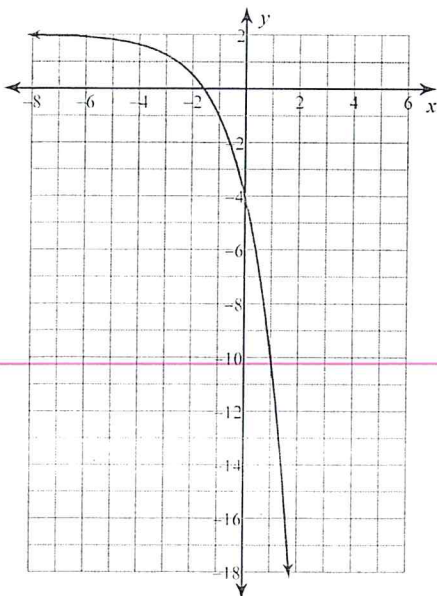
$$\left\{ \frac{3}{8} \right\}$$

4)  $16^{-2b} = 64$

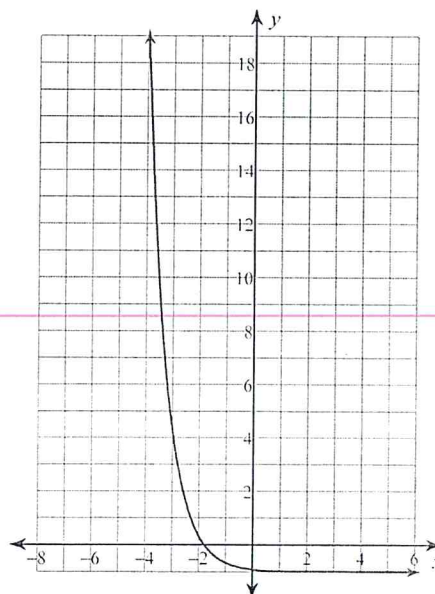
$$\left\{ -\frac{3}{4} \right\}$$

Sketch the graph of each function.

5)  $f(x) = -3 \cdot 2^{x+1} + 2$

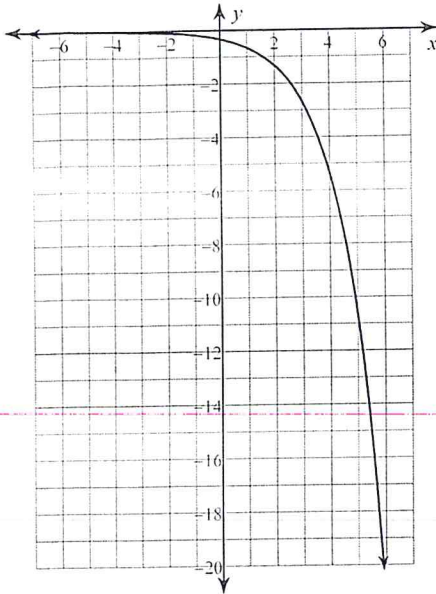


6)  $f(x) = \frac{1}{3} \cdot \left(\frac{1}{4}\right)^{x+1} - 1$



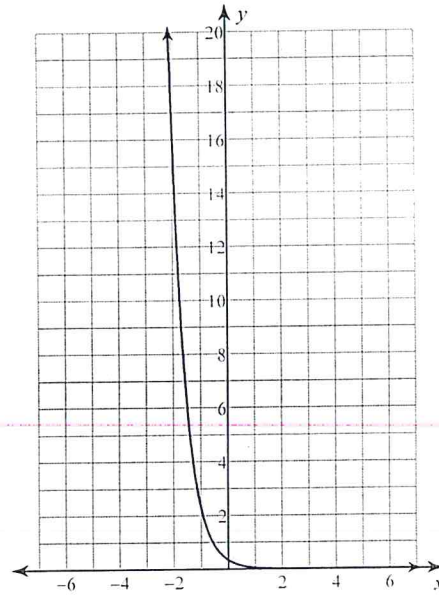
Write an equation for each graph.

7)



$$f(x) = -\frac{1}{3} \cdot 2^x$$

8)



$$f(x) = \frac{1}{3} \cdot \left(\frac{1}{7}\right)^x$$

9) Find an equation for the exponential function passing through the points: (-1, 5) and (0.5, 40).

$$y = 20 \cdot 4^x$$

10) Find an equation for the exponential function passing through the points: (-1, 2) and (2, 4).

$$y = 2.5198(1.2599)^x$$