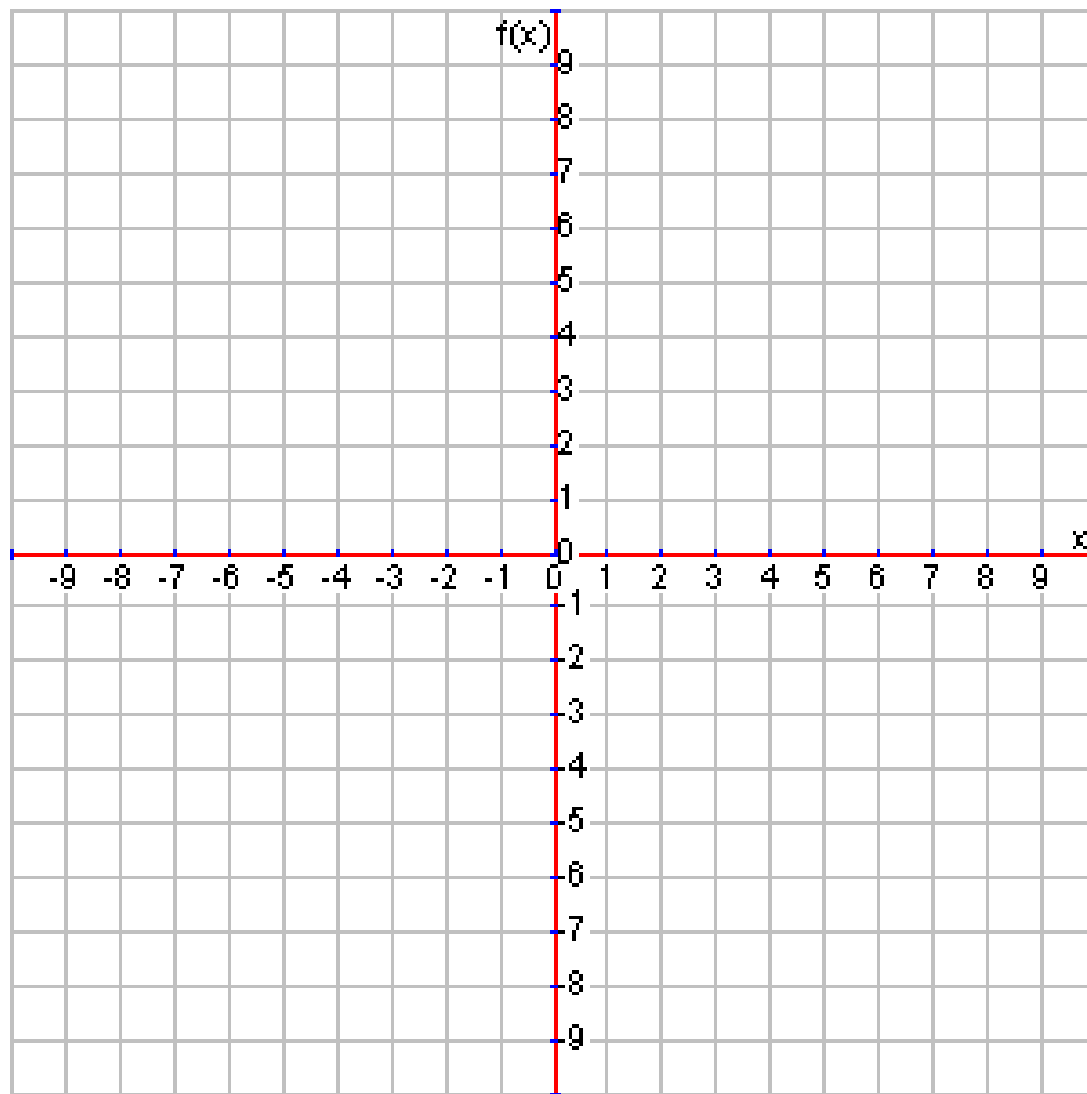


$$y = \left(\frac{1}{4}\right)^{-x}$$

Practice

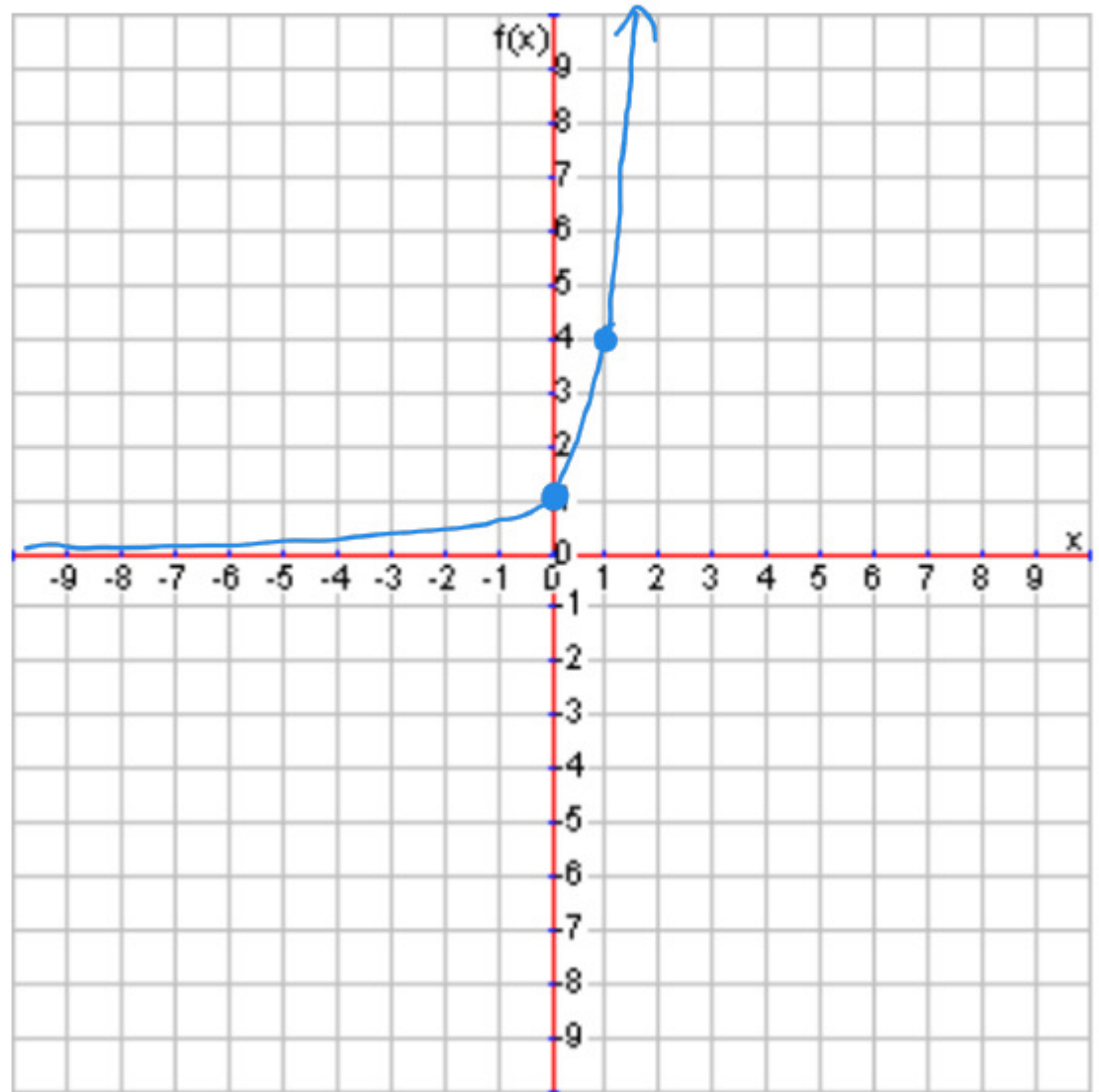


$$y = \left(\frac{1}{4}\right)^{-x}$$

$$y = 1(4)^x \quad \begin{array}{l} a=1 \\ b=4 \end{array}$$

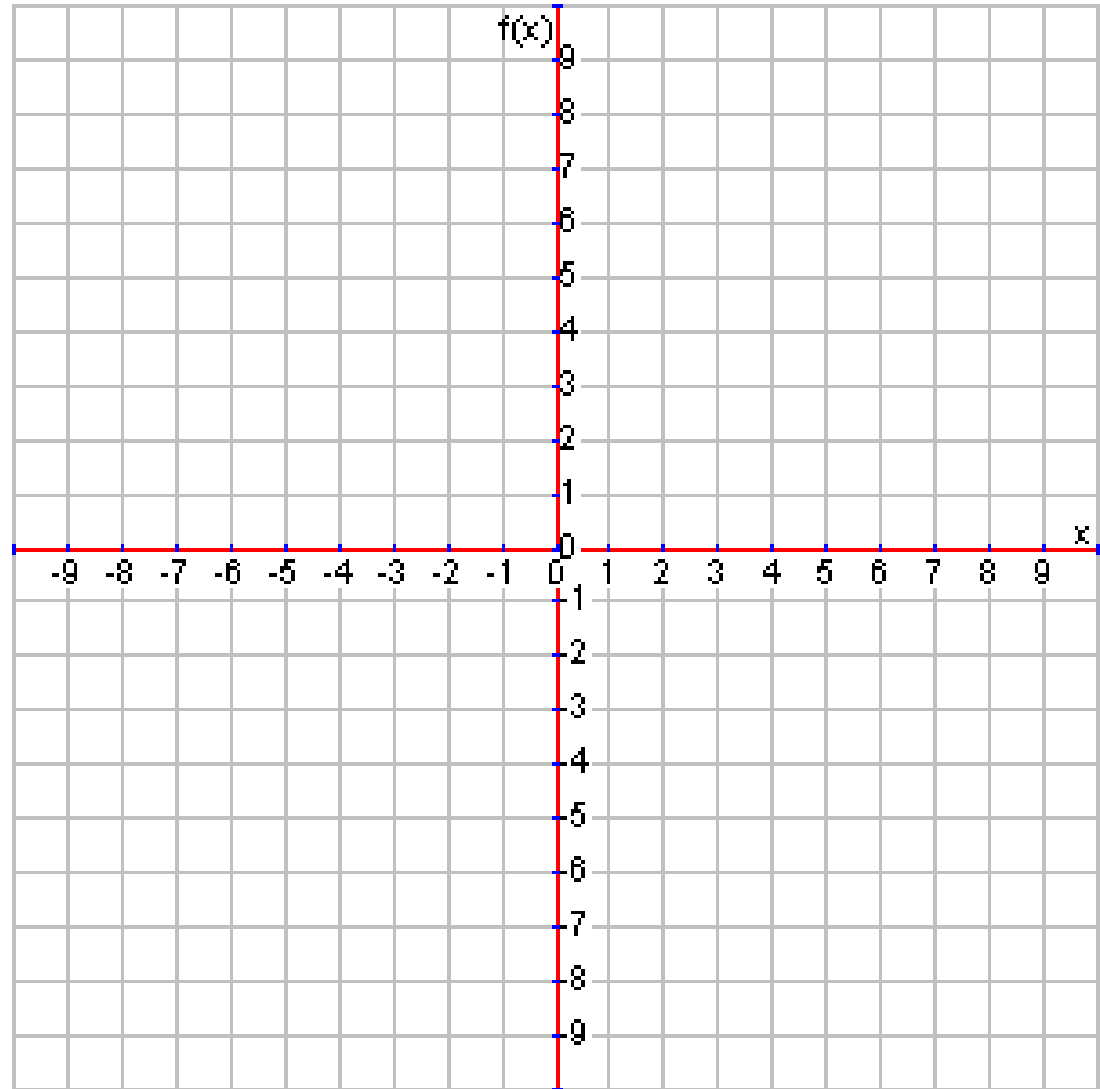
X	Y
0	$1(4)^0 = 1(1) = 1$
1	$1(4)^1 = 1(4) = 4$

Practice



$$y = -2(5)^x + 8$$

Practice

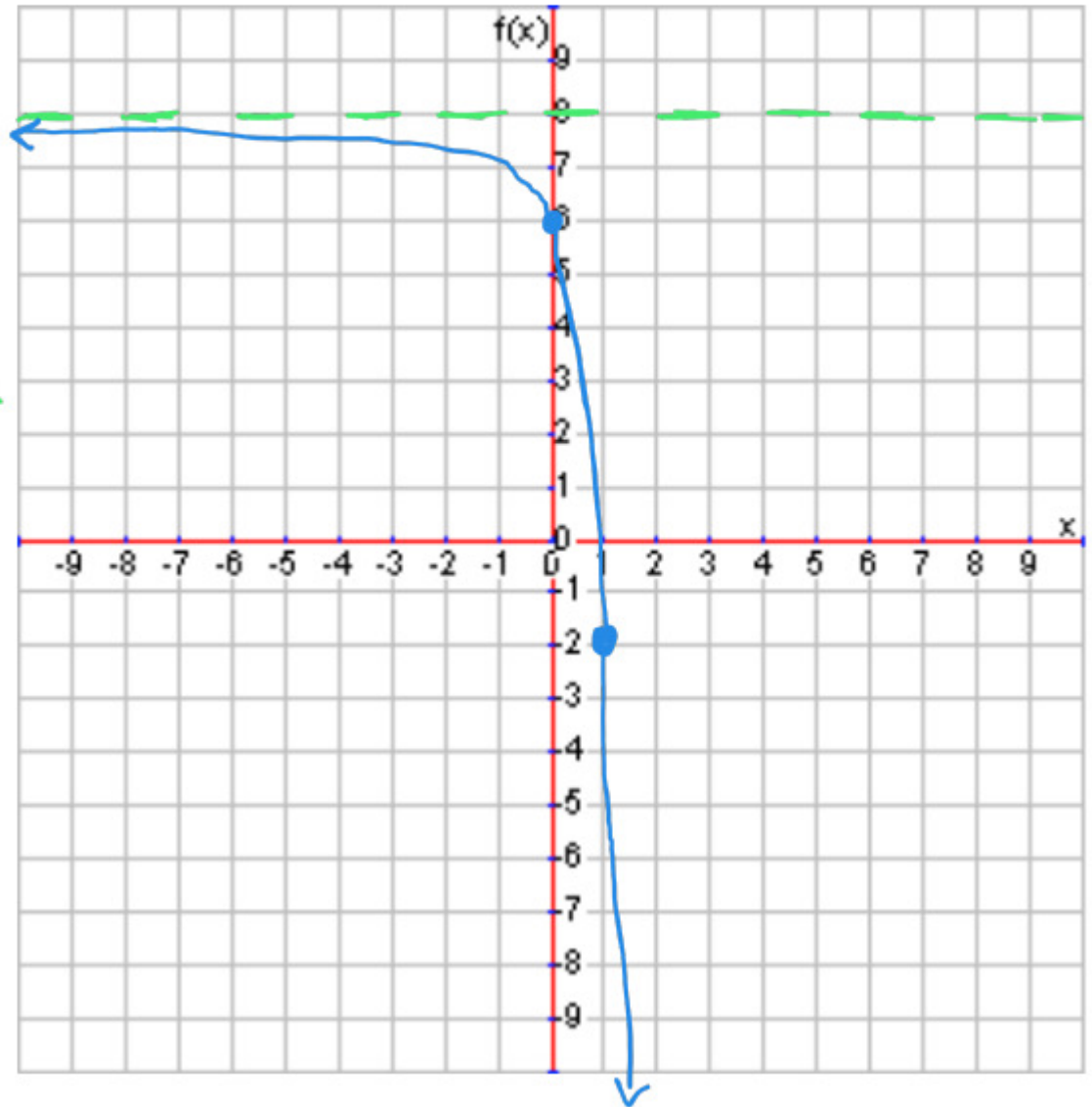


Practice

$$y = -2(5)^x + 8$$

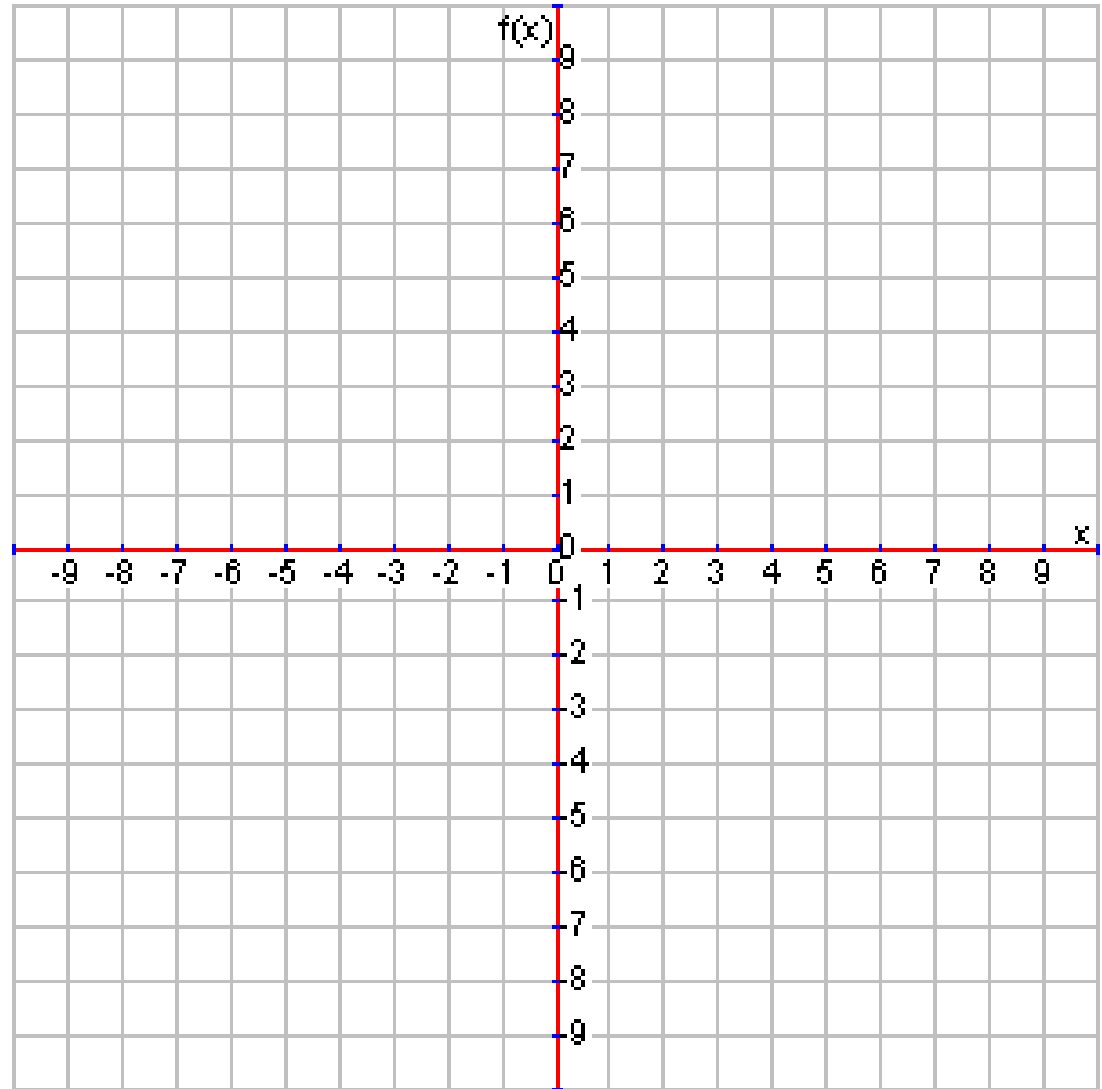
X	Y
0	$-2(5)^0 + 8 = -2(1) + 8 = 6$
1	$-2(5)^1 + 8 = -2(5) + 8 = -2$

HA: $y = 8$ $a = -2$
 $b = 5$



$$y = e^{-x} - 4$$

Practice



Practice

$$y = e^{-x} - 4$$

X | Y

0	$e^{-0} - 4 = 1 - 4 = -3$
-1	$e^{-(-1)} - 4 = e - 4 \approx 2.7 - 4 \approx -1.3$

$$y = \left(\frac{1}{e}\right)^x - 4 \quad \begin{array}{l} a = 1 \\ b = \frac{1}{e} \approx \frac{1}{3} \end{array}$$

$$HA: y = -4$$

