

NAME: _____

HW 9.2 – DAY 2

DATE: _____

ALGEBRA

Describe the transformation(s) of $y = 2^x$ required for the following functions.

1. $f(x) = -2^x + 3$

2. $g(x) = 2^{x+3}$

3. $y = \left(\frac{1}{2}\right)^{x-1} - 2$

4. $y = -3(2)^x + 2$

5. $y = -2^{x-2} - 9$

6. $f(x) = \left(\frac{1}{2}\right)^{x+2} - 1$

7. $y = 2^{x+4} + 3$

8. $g(x) = 2^x + 6$

Which exponential function is represented in the given graph?

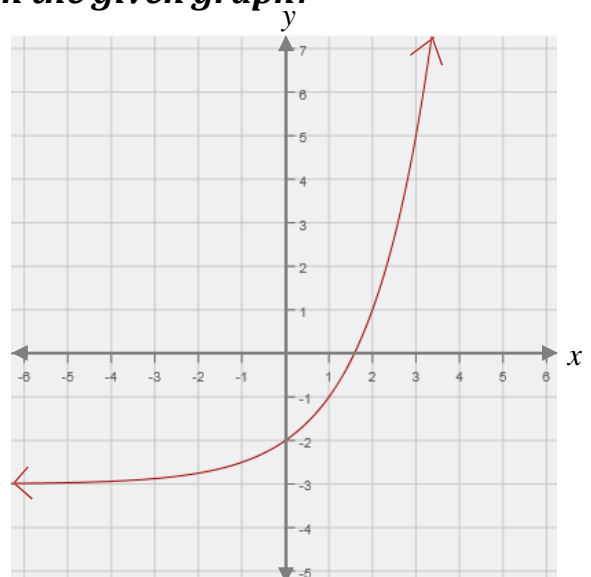
9.

a. $y = 2^{x-3}$

b. $y = 2^x + 3$

c. $y = 2^x - 3$

d. $y = 2^{x+3}$



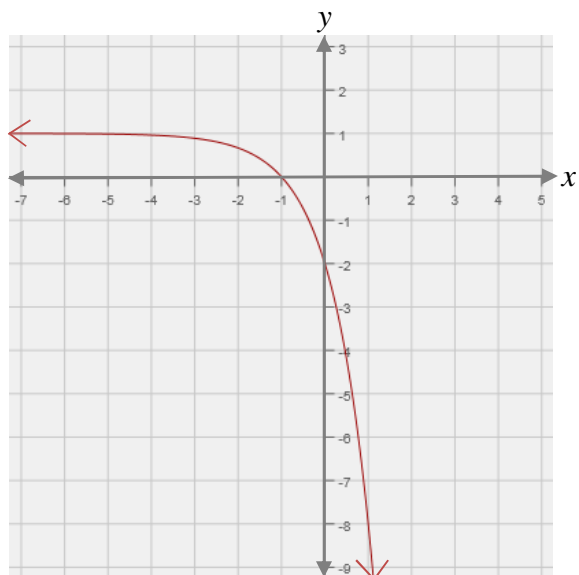
10.

a. $y = -2^x - 2$

b. $y = -3^x + 1$

c. $y = -3^{x+1} + 1$

d. $y = -2^{x+1} + 1$



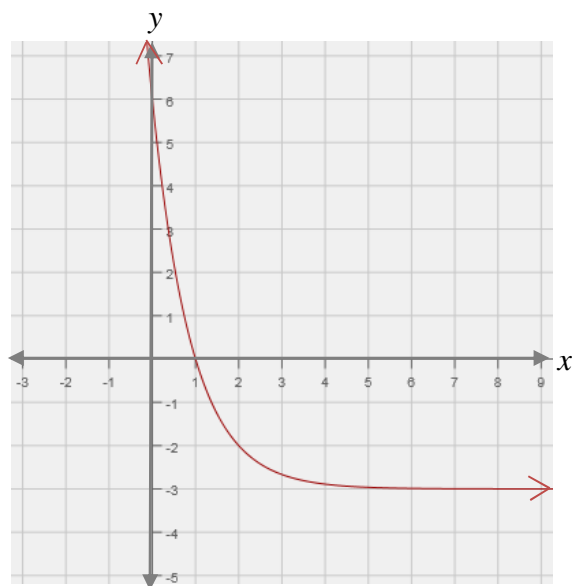
11.

a. $y = \left(\frac{1}{3}\right)^{x-2} - 3$

b. $y = \left(\frac{1}{3}\right)^{x-3} - 2$

c. $y = \left(\frac{1}{2}\right)^{x-2} - 3$

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



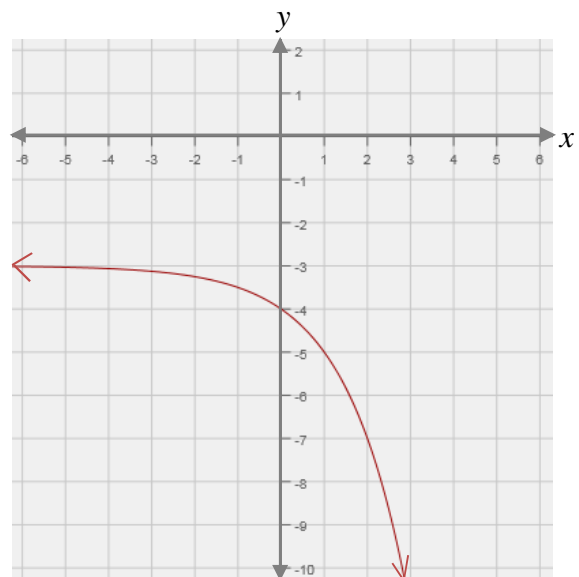
12.

a. $y = -2^x - 3$

b. $y = 2^x - 3$

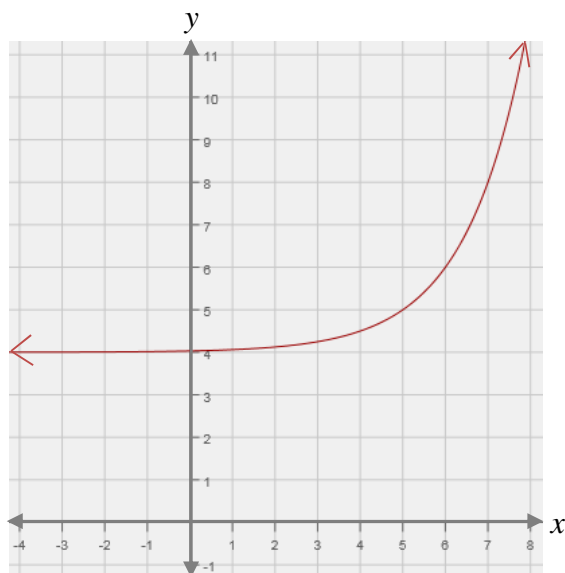
c. $y = 2^x + 3$

d. $y = -2^x + 3$

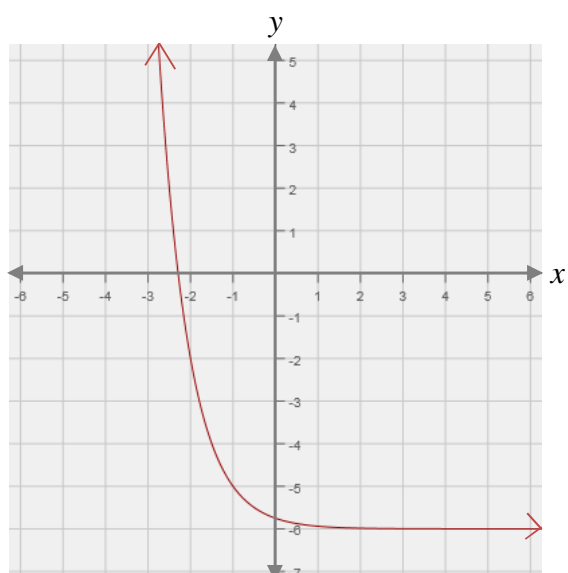


Write the equation for the given exponential function.

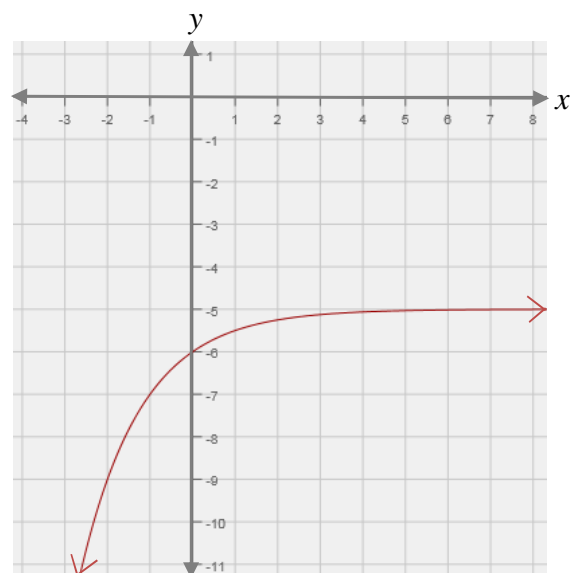
13.



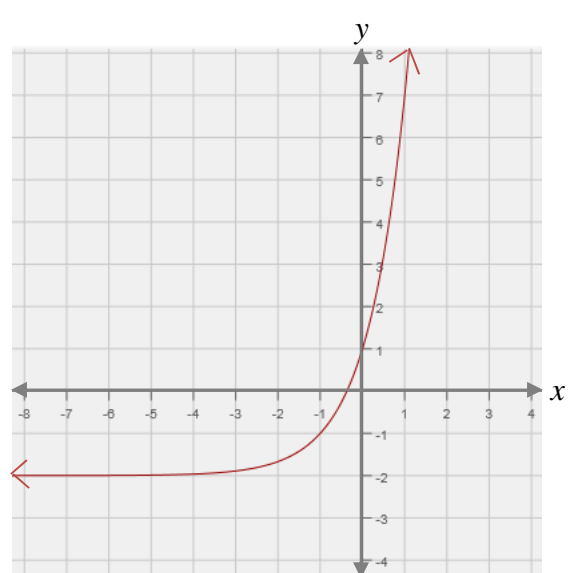
14.



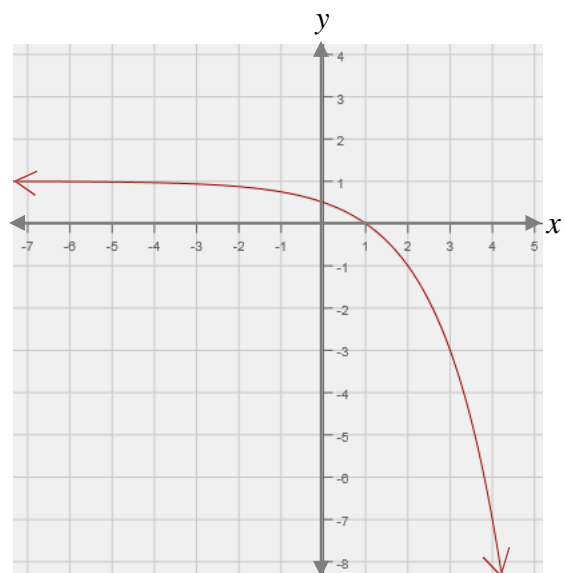
15.



16.



17.



18.

