

Find the inverse of each function.

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

2.) $y = \sqrt{x+1}$

3.) $f(x) = 4^x$

4.) $y = \frac{2x+1}{3}$

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

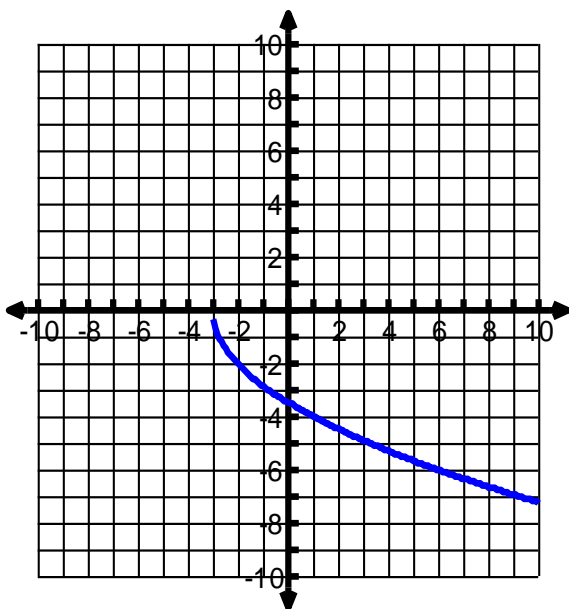
6.) $y = 4^{x+2}$

7.) $y = \log_2(x+2)$

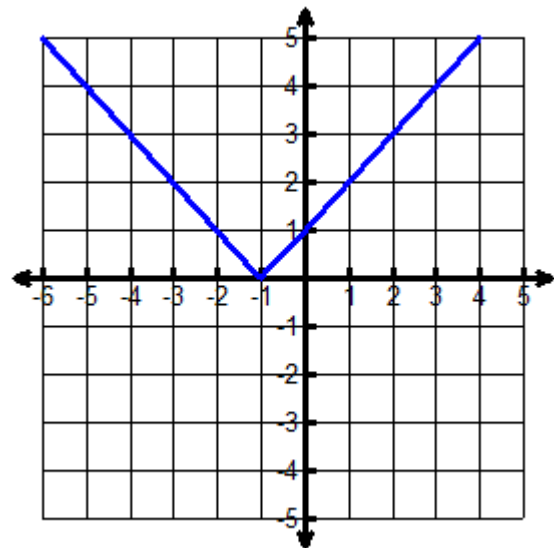
8.) $y = \sqrt[3]{x+3}$

Find the inverse of each function graphically

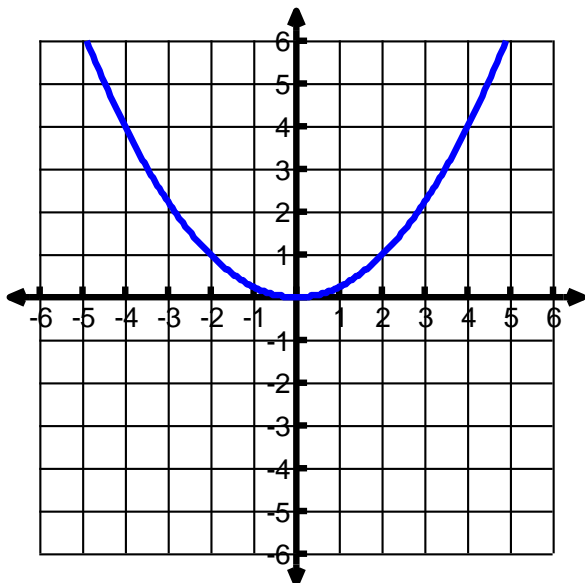
9.)



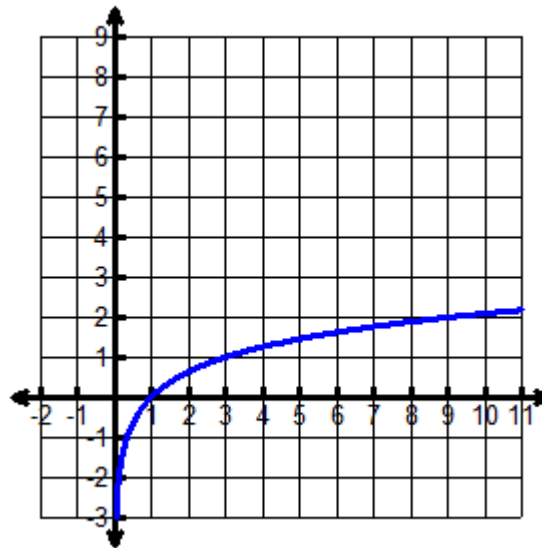
10.)



11.)



12.)



Determine whether each pair of functions are inverse functions using composite functions.

13.) $f(x) = 2x - 3$

$$g(x) = \frac{x+3}{2}$$

14.) $f(x) = 3^x$

$$g(x) = \log_3 x$$

15.) $f(x) = -3x$

$$g(x) = -\frac{3}{x}$$

16.) $f(x) = 5^{x+1}$

$$g(x) = \log_5(x+1)$$