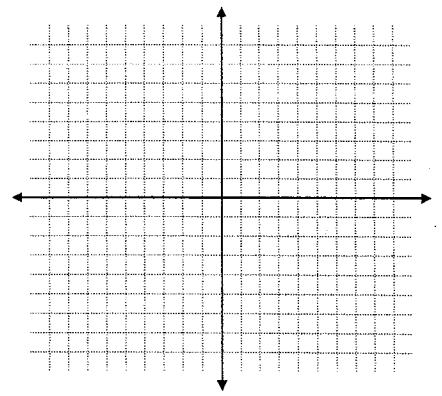


11. Graph  $y = -2x^2 + 4$  and its inverse.



Find  $f^{-1}$ . Determine whether  $f^{-1}$  is a function.

12.  $f(x) = (x+3)^2$

13.  $y = 3(x+1)$

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

Let  $f(x) = 2x - 1$ . Find each value.

15.  $(f \circ f^{-1})(5)$

16.  $(f^{-1} \circ f)(-1)$

17.  $(f \circ f^{-1})\left(-\frac{1}{2}\right)$

## 7.8

18.  $y = -\sqrt{x} - 1$

a:

h:

k:

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

19.  $\sqrt[3]{x+2} - 3$

a:

h:

k:

Domain: \_\_\_\_\_

Range: \_\_\_\_\_

20.  $y = -\sqrt{4x+20}$

a. Rewrite the function to make it easy to graph using a translation.

b. Graph the function.

