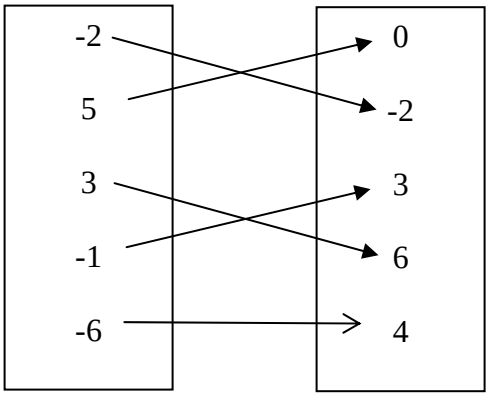
Name_____ Date_____ Period_____

INVERSE FUNCTIONS WORKSHEET #2

The given coordinates are on *f(x)*, find the coordinates for $f^{-1}(x)$.

1) $(-2,4)$ 2) $(4,7)$ 3) $(0,11)$ 4) $(-3,-8)$

5) Below is a mapping of *f(x)*. Find the coordinates for $f^{-1}(x)$.

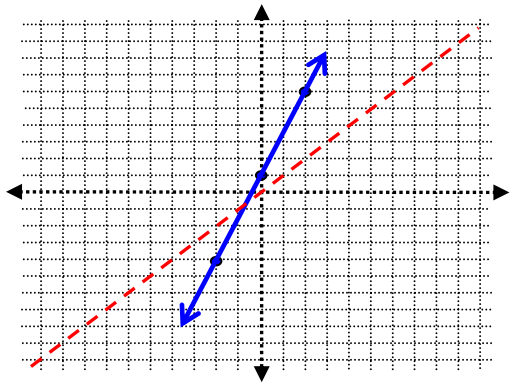


Find the inverse for each function below.

6) $f(x)=15x-1$ 7) $f(x)=\frac{1}{3}x+7$ 8) $f(x)=-5x-11$

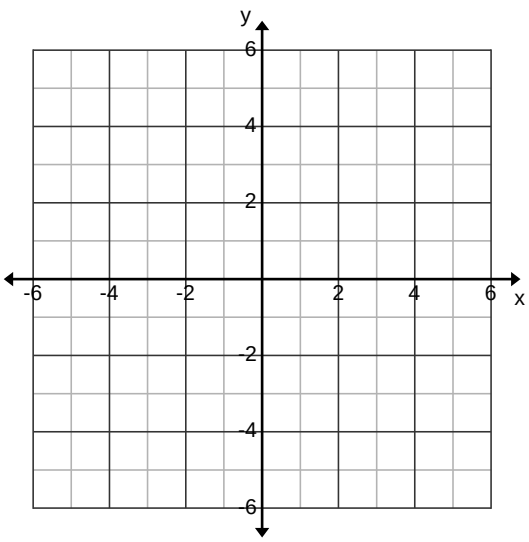
9) $f(x)=-2x+7$ 10) $f(x)=-\frac{1}{2}x-8$ 11) $f(x)=\frac{3x+4}{2}$

12. Graph the inverse of the given function.

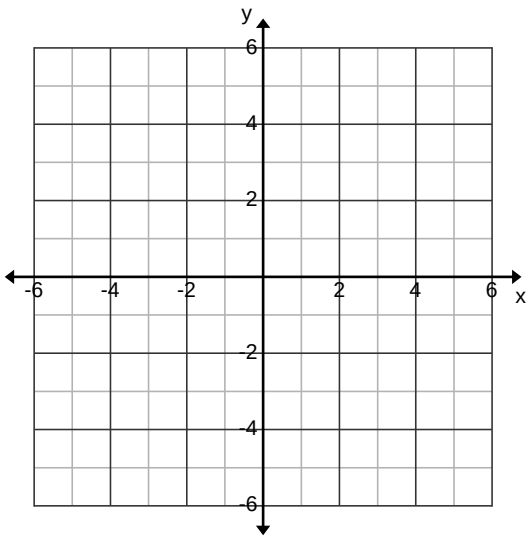


Find the inverse of each function. Then, graph the function and its inverse on the graph.

13) $f(x) = 4x - 4$



14) $f(x) = -\frac{1}{3}x + 2$



15) The basic economic theory shows that the demand and price are related by the linear model. A recent survey shows that demand and price of a new computer are given by the function $D = -0.21P + 730$. D represents the demand (measured by millions) and P the price (measured by dollar).

a) Find the inverse of this function.

b) Find the price when D is \$562.

16) The relationship between Fahrenheit (F) and Celsius (C) scales is given by $C = \frac{5}{9}F - \frac{160}{9}$.

a) Find the inverse of this function.

b) Find the value of Fahrenheit when $C = 25$.