

LESSON **Practice B**
7-2 *Inverses of Relations and Functions*

Use inverse operations to write the inverse of each function.

1. $f(x) = 15x - 10$

2. $f(x) = 10 - 4x$

3. $f(x) = 12 - 9x$

4. $f(x) = 5x + 2$

5. $f(x) = x + 6$

6. $f(x) = x + \frac{1}{2}$

7. $f(x) = -\frac{x}{12}$

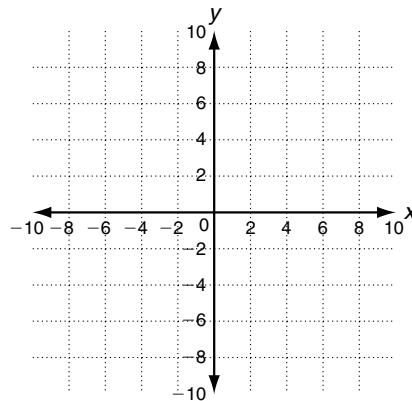
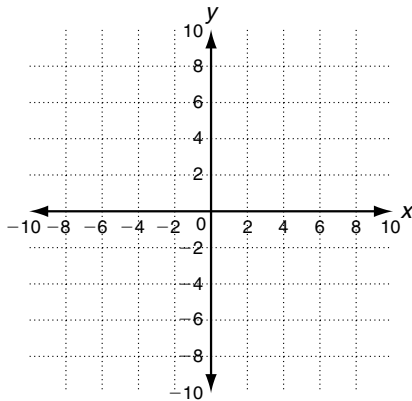
8. $f(x) = \frac{x - 12}{4}$

9. $f(x) = \frac{3x + 1}{6}$

Graph each function. Then write and graph its inverse.

10. $f(x) = 2x - 4$

11. $f(x) = \frac{5}{2}x - 2$



Solve.

12. Dan works at a hardware store. The employee discount is determined by the formula $d = 0.15(c - 10)$. Use the inverse of this function to find the cost of the item for which Dan received an \$18.00 discount.

a. Find the inverse function that models cost as a function of the discount.

b. Evaluate the inverse function for $d = 18$.

c. What was Dan's final cost for this item?
