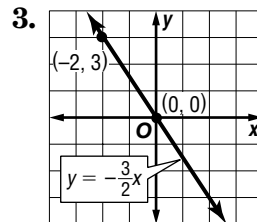
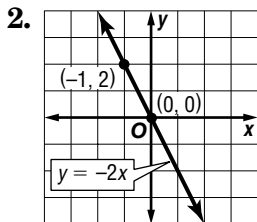
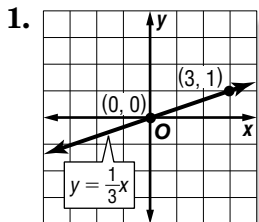


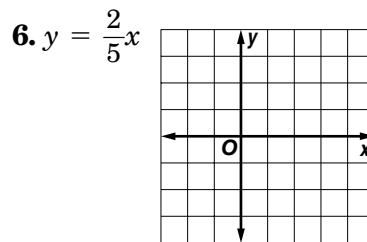
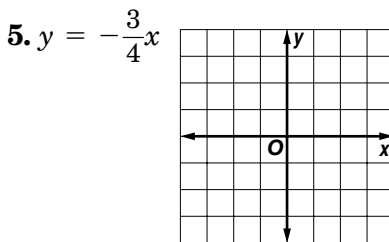
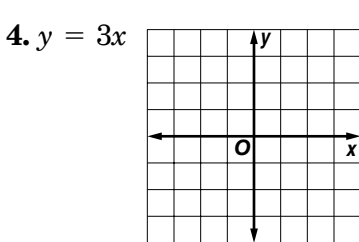
# 5-2 Skills Practice

## Slope and Direct Variation

Name the constant of variation for each equation. Then determine the slope of the line that passes through each pair of points.



Graph each equation.



Write a direct variation equation that relates  $x$  and  $y$ . Assume that  $y$  varies directly as  $x$ . Then solve.

7. If  $y = -8$  when  $x = -2$ , find  $x$  when  $y = 32$ .

8. If  $y = 45$  when  $x = 15$ , find  $x$  when  $y = 15$ .

9. If  $y = -4$  when  $x = 2$ , find  $y$  when  $x = -6$ .

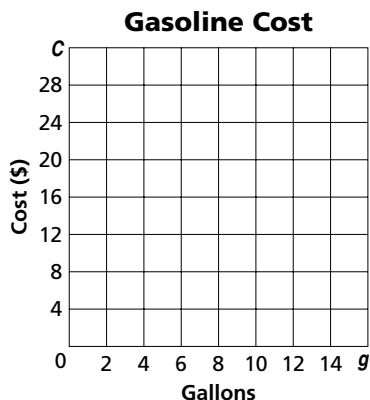
10. If  $y = -9$  when  $x = 3$ , find  $y$  when  $x = -5$ .

11. If  $y = 4$  when  $x = 16$ , find  $y$  when  $x = 6$ .

12. If  $y = 12$  when  $x = 18$ , find  $x$  when  $y = -16$ .

Write a direct variation equation that relates the variables. Then graph the equation.

13. **TRAVEL** The total cost  $C$  of gasoline is \$1.80 times the number of gallons  $g$ .



14. **SHIPPING** The number of delivered toys  $T$  is 3 times the total number of crates  $c$ .

