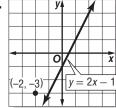
Skills Practice A-A

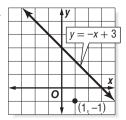
Parallel and Perpendicular Lines

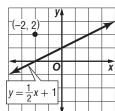
Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the given equation.





2.





4.
$$(3, 2), y = 3x + 4$$

5.
$$(-1, -2), y = -3x + 5$$

6.
$$(-1, 1), y = x - 4$$

7.
$$(1, -3), y = -4x - 1$$

8.
$$(-4, 2), y = x + 3$$

7.
$$(1, -3), y = -4x - 1$$
 8. $(-4, 2), y = x + 3$ **9.** $(-4, 3), y = \frac{1}{2}x - 6$

10. RADAR On a radar screen, a plane located at A(-2, 4) is flying toward B(4, 3). Another plane, located at C(-3, 1), is flying toward D(3, 0). Are the planes' paths perpendicular? Explain.

Determine whether the graphs of the following equations are parallel or perpendicular. Explain.

11.
$$y = \frac{2}{3}x + 3, y = \frac{3}{2}x, 2x - 3y = 8$$

12.
$$y = 4x$$
, $x + 4y = 12$, $4x + y = 1$

Write an equation in slope-intercept form for the line that passes through the given point and is perpendicular to the graph of the given equation.

13.
$$(-3, -2), y = x + 2$$

14.
$$(4, -1), y = 2x - 4$$

13.
$$(-3, -2), y = x + 2$$
 14. $(4, -1), y = 2x - 4$ **15.** $(-1, -6), x + 3y = 6$

16.
$$(-4, 5), y = -4x - 1$$

16.
$$(-4, 5), y = -4x - 1$$
 17. $(-2, 3), y = \frac{1}{4}x - 4$ **18.** $(0, 0), y = \frac{1}{2}x - 1$

18.
$$(0, 0), y = \frac{1}{2}x - 1$$