

Linear Equations 3.1

Geometry

In problems 1-4, perform the following with each equation.

- A. Use a t-table find the x and y-intercepts and one other solution.
- B. Graph the equation.
- C. Find the slope of the graph.

1) $3x = 9y + 18$

2) $4y = -12$

3) $4y + 6x = 8$

Put the following equations in slope-intercept form. Graph them with their x and y-intercepts. State the slope of each graph.

4) $2x = -5y + 10$

5) $3x - 4y = 24$

6) $10y = 3y + 28$

7) $5x + 8y = 20$

Given the following pairs of equations in 8 - 13, find the slope of the graph of each equation, and state whether the lines are parallel, perpendicular, or neither.

8) $y = 3x + 4/5$
 $y = 3x - 5/4$

11) $3y = 2x + 6$
 $8x - 12y = 24$

9) $q = \frac{1}{6}p + 5$
 $q = -6p + 5$

12) $x = -1$
 $y = 6$

10) $k = \frac{7}{2}j + 3$
 $k = \frac{2}{7}j - 3$

13) $4c + 10d = 10$
 $2d = 5c - 8$