## Graph of a Linear Equation

Graphing linear equations can be done using any of the four methods:

- 1. Using two points
- 2. Using the x- and y-intercepts
- 3. Using the slope and the y-intercept
- 4. Using the slope and a point

### Practice Exercises

- A. Graph each linear equation using two points.
  - 1. y = 3x + 4
- 3. 4y = 3x 12

- B. Graph each linear equation using the x- and y-intercepts.
  - 1. x 3y = 9
- 2. 6y + x = -6
- $4. \quad \frac{x}{2} + \frac{y}{3} = 1$
- Graph each linear equation using the slope and the y-intercept.
  - 1. -6 = 3y
- 3. 4y = 3x 12
- 2. x = 2y
- 4. 3(x+2) = y
- Graph each linear equation using the slope and a point.
  - 1. x 12 = 3y
- 3. 20 = 5x 4y
- 2. x = 4y

### Problem Set

- A. Graph each linear equation using the x- and y-intercepts.
  - 1. 2x + 5y = 12

- 3. 8y = 4x + 324.  $\frac{x}{-3} + \frac{y}{3} = 1$
- B. Graph each linear equation using the slope and the y-intercept.
  - 1. 2x 5y = -10
- 3. -2x = y + 6
- 2. 2(y-x)=4
- 4. 7x 10 + 5y = 0

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## Problem Set

- A. Graph each linear equation using the x- and y-intercepts.
  - 1. 2x + 5y = 12
- 2. 4x 3y = 24
- 4.  $\frac{x}{-2} + \frac{y}{2} = 1$
- B. Graph each linear equation using the slope and the y-intercept.
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