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. $y = 3x + 4$
2. $x = 2y$
3. $4y = 3x - 12$
4. $5 = 5x + y$

B. Graph each linear equation using the x- and y-intercepts.

1. $x - 3y = 9$
2. $6y + x = -6$
3. $20 = 5x - 4y$
4. $\frac{x}{2} + \frac{y}{3} = 1$

C. Graph each linear equation using the slope and the y-intercept.

1. $-6 = 3y$
2. $x = 2y$
3. $4y = 3x - 12$
4. $3(x + 2) = y$

D. Graph each linear equation using the slope and a point.

1. $x - 12 = 3y$
2. $x = 4y$
3. $20 = 5x - 4y$
4. $\frac{x}{2} + \frac{y}{3} = 1$

Problem Set

A. Graph each linear equation using the x- and y-intercepts.

1. $2x + 5y = 12$
2. $4x - 3y = 24$
3. $8y = 4x + 32$
4. $\frac{x}{-3} + \frac{y}{3} = 1$

B. Graph each linear equation using the slope and the y-intercept.

1. $2x - 5y = -10$
2. $2(y - x) = 4$
3. $-2x = y + 6$
4. $7x - 10 + 5y = 0$

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