Algebra II Lesson #1 Unit 2

Notes #1

Class Worksheet #1

For Worksheets #1 & #4

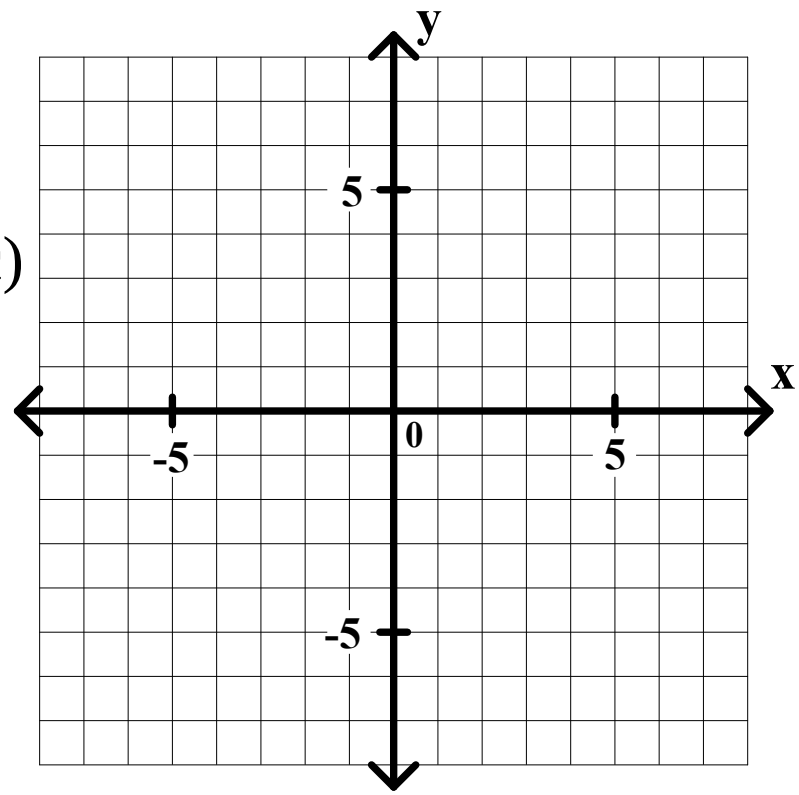
Algebra II Class Worksheet #1 Unit 2

1. $4x - 3y = 6$

(a) x intercept: ___ y intercept: ___

(b) slope-intercept equation: _____

(c)



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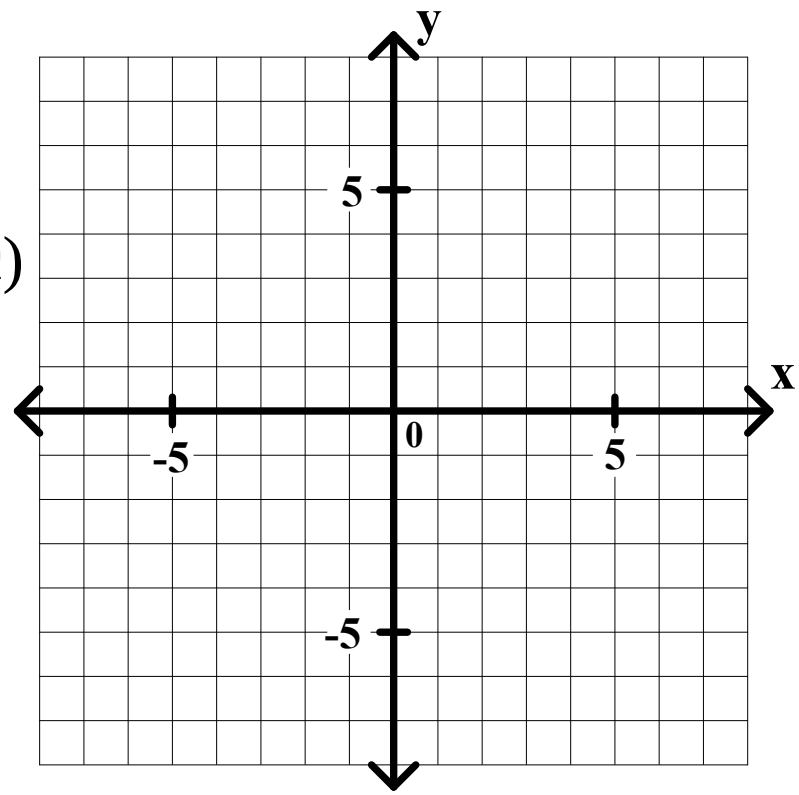

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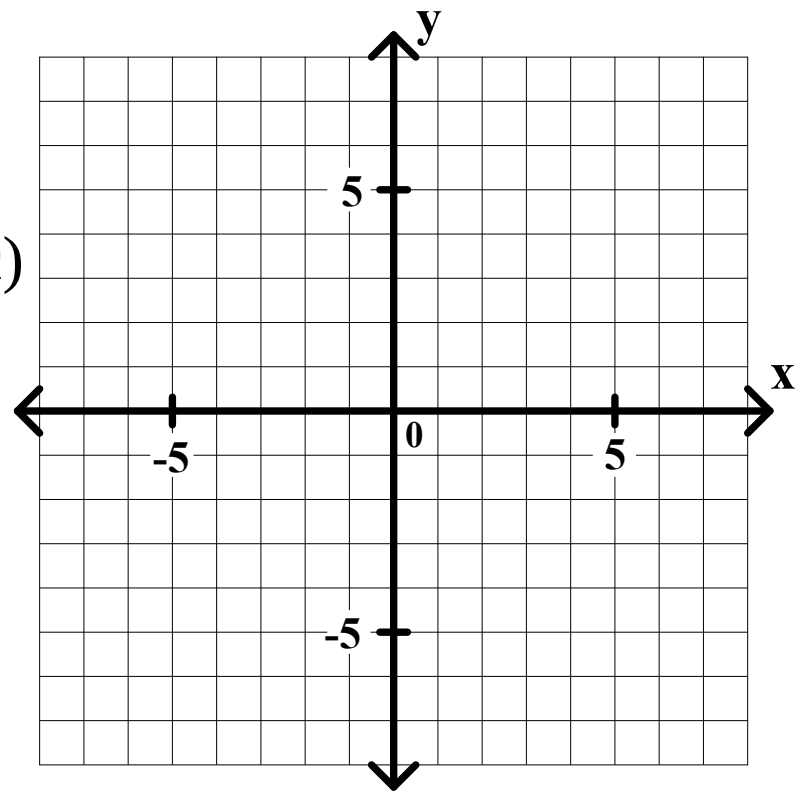

The x-intercept is the value of x when y = 0.

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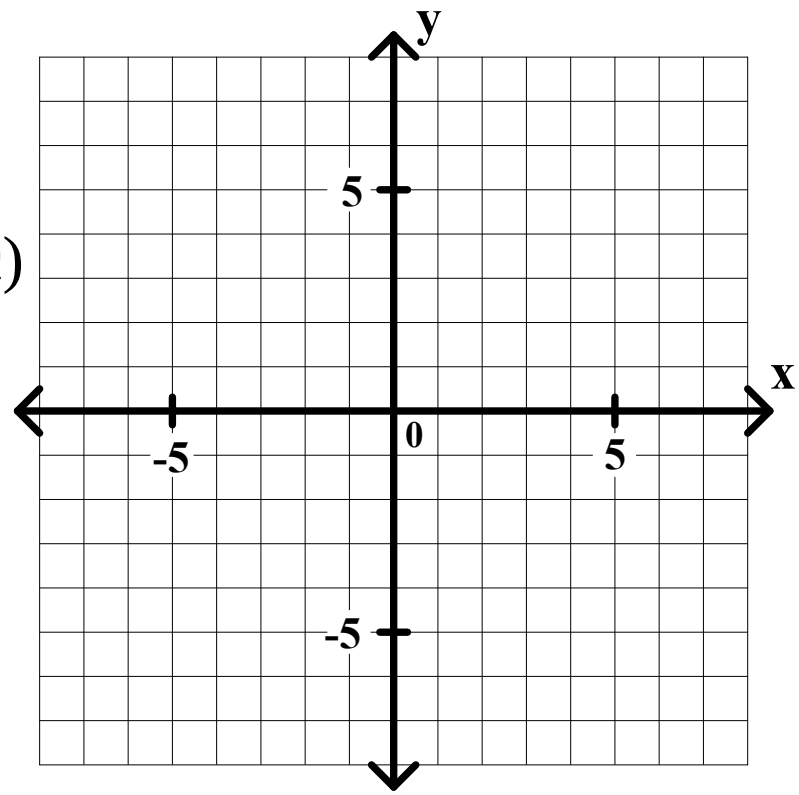

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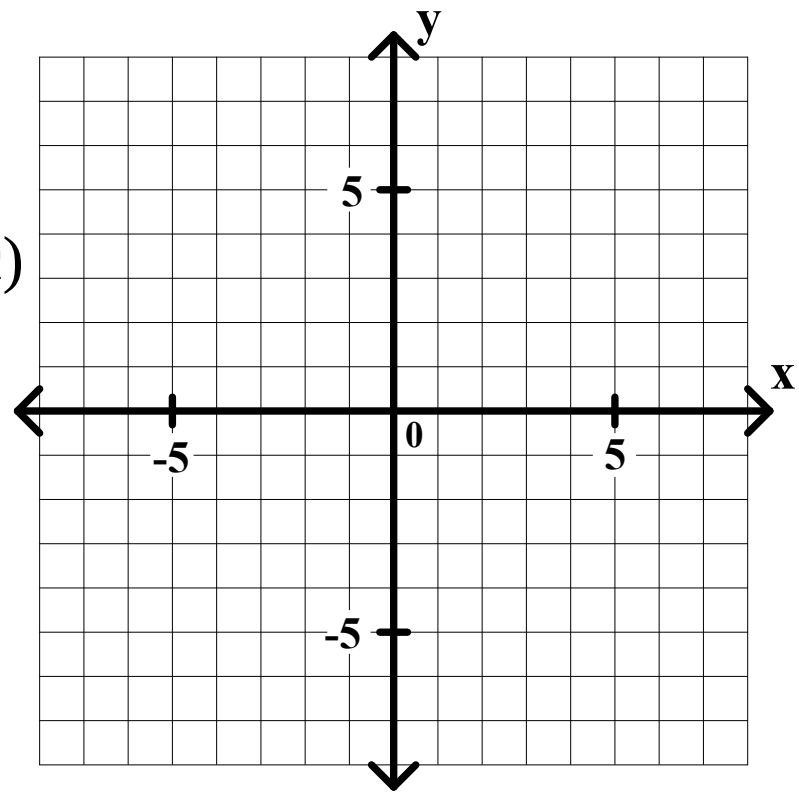

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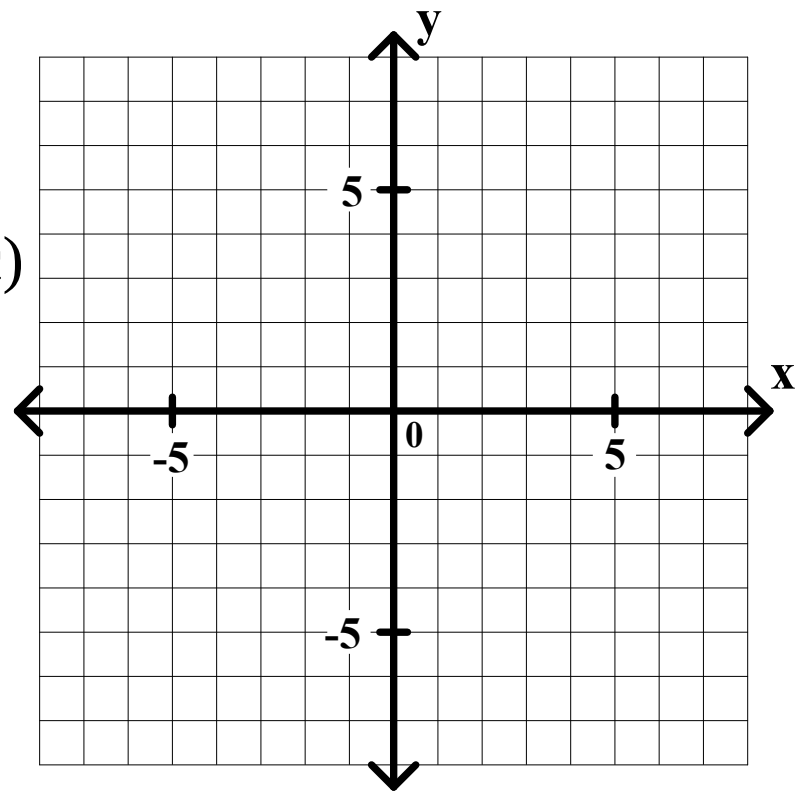

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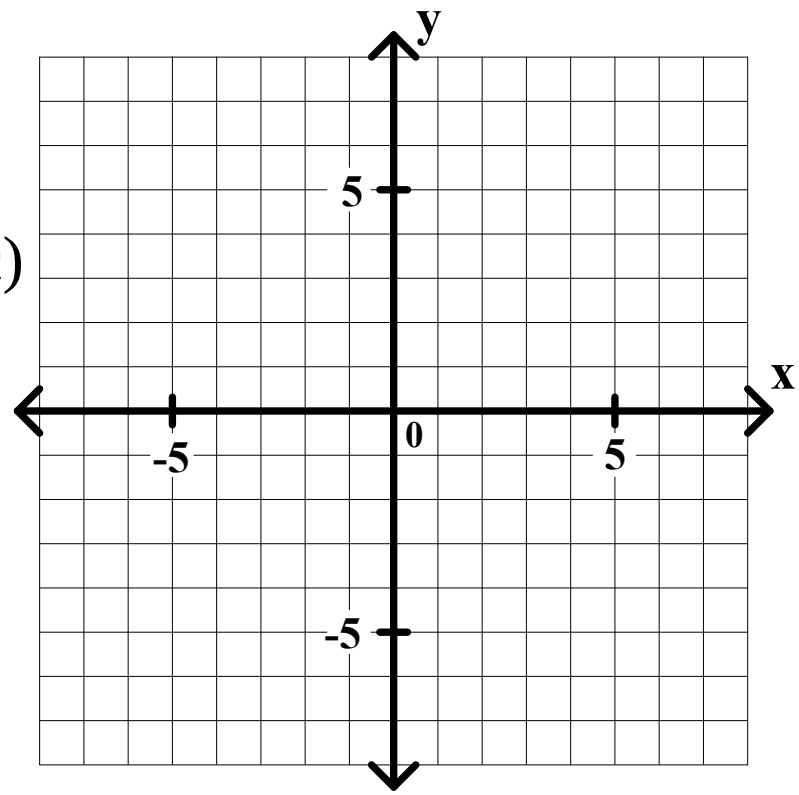

a. $4x - 3y = 6$

$4x - 3(0)$

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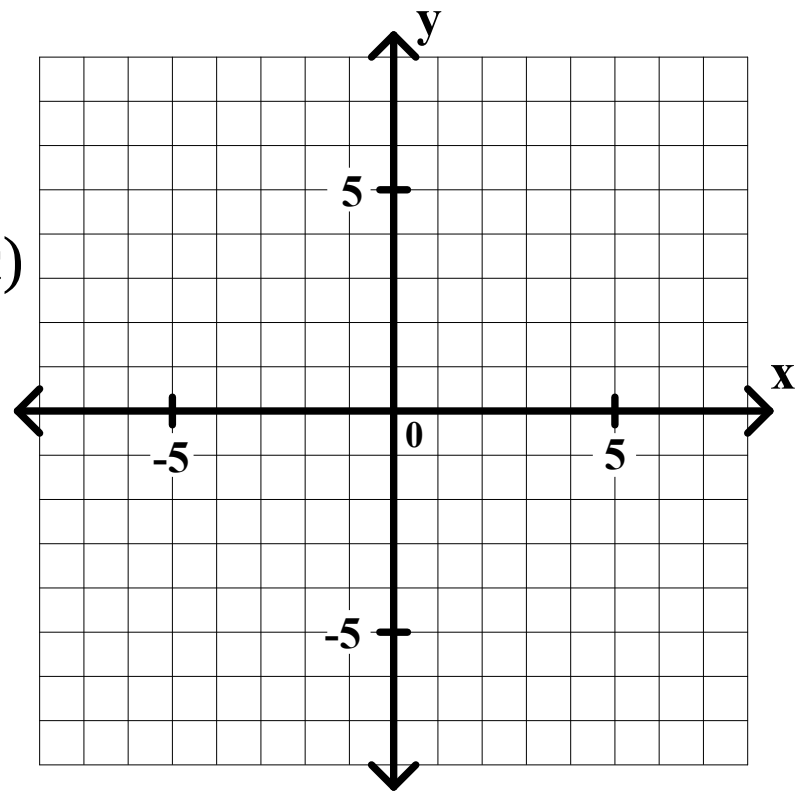

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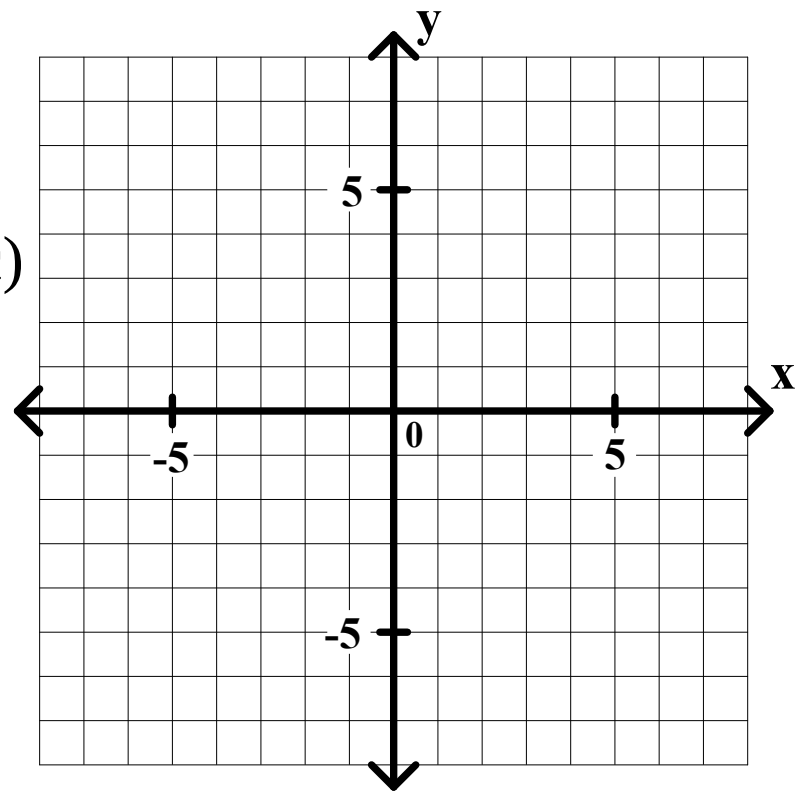

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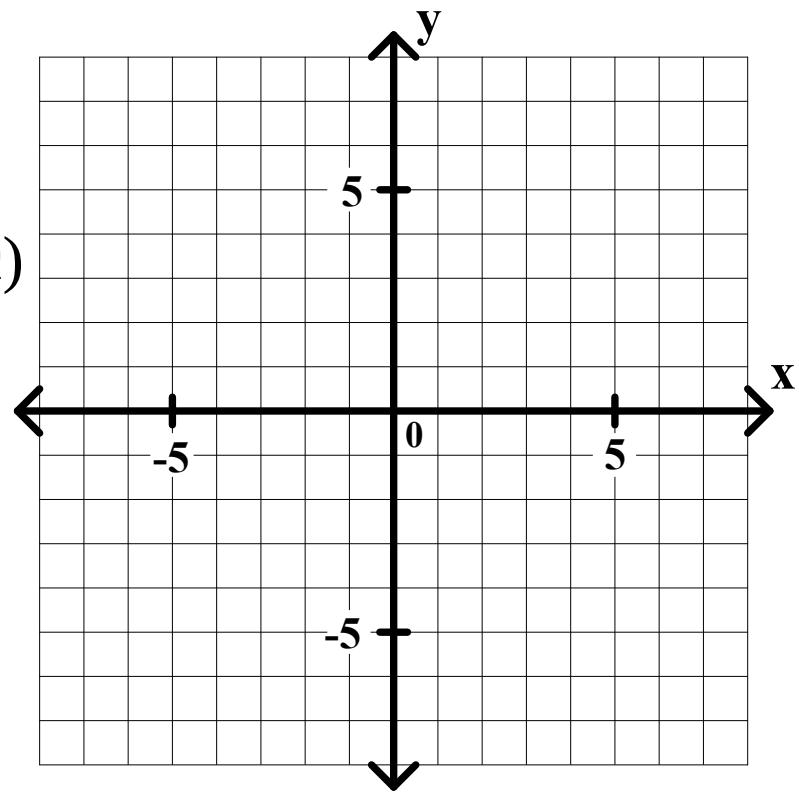

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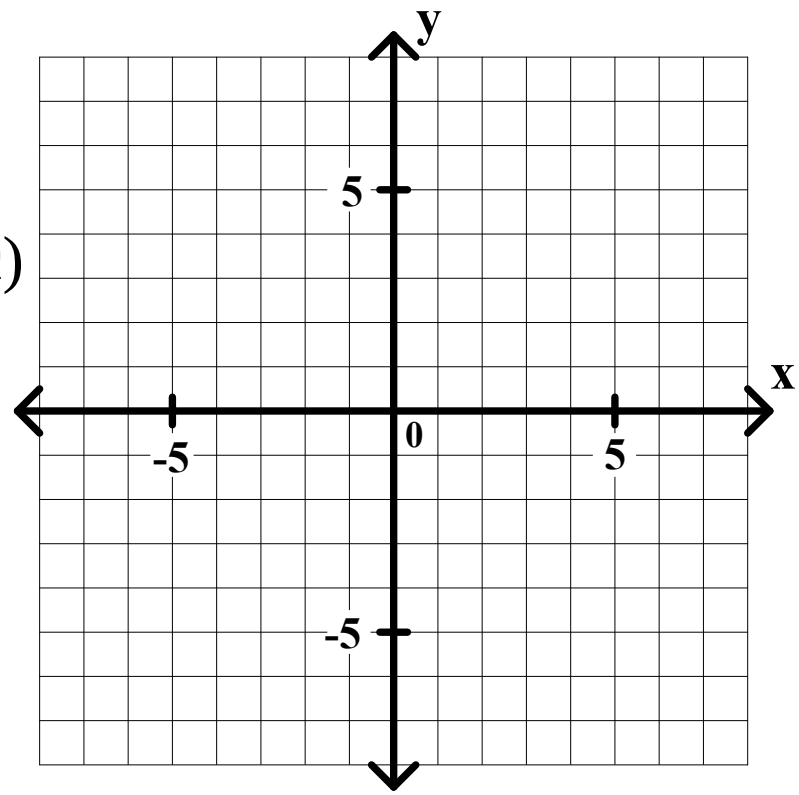

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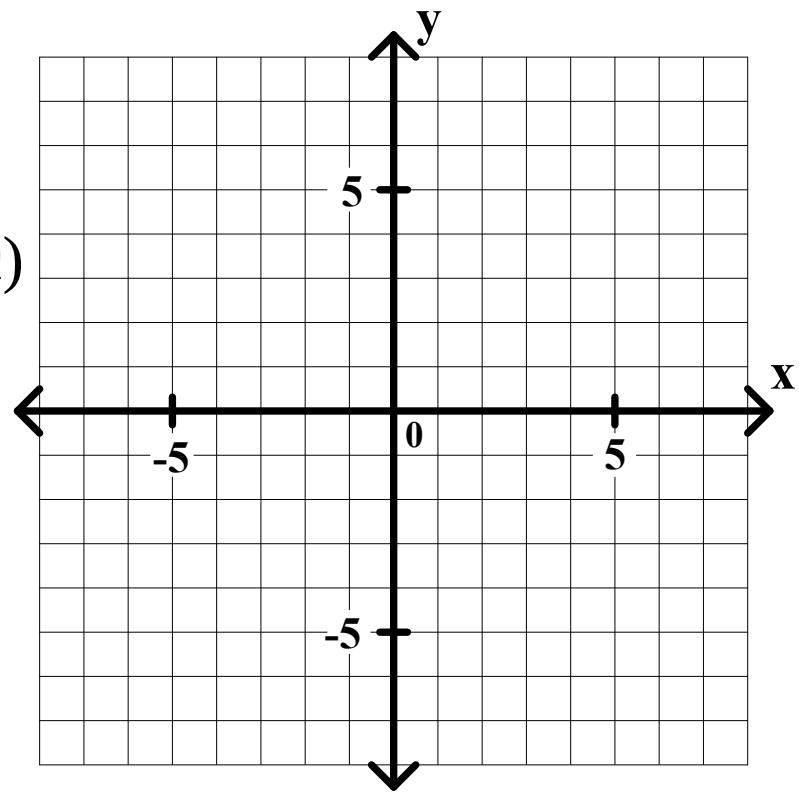

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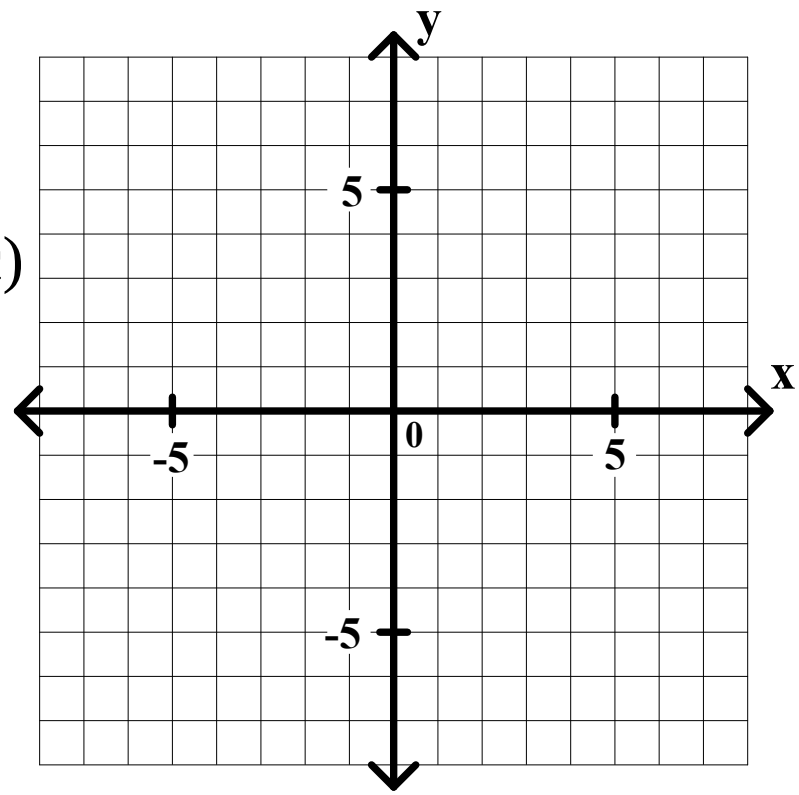

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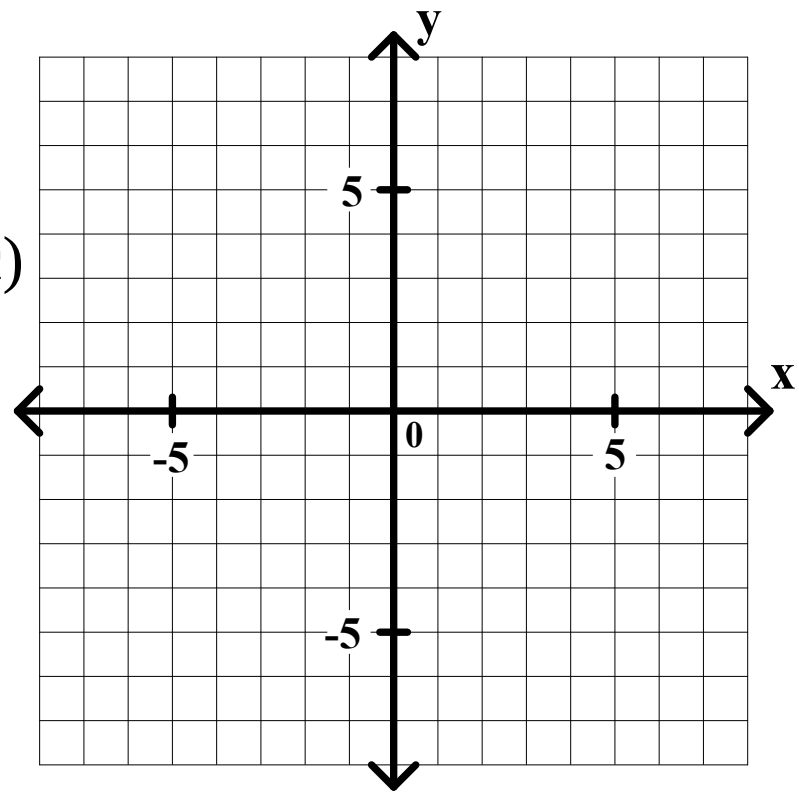

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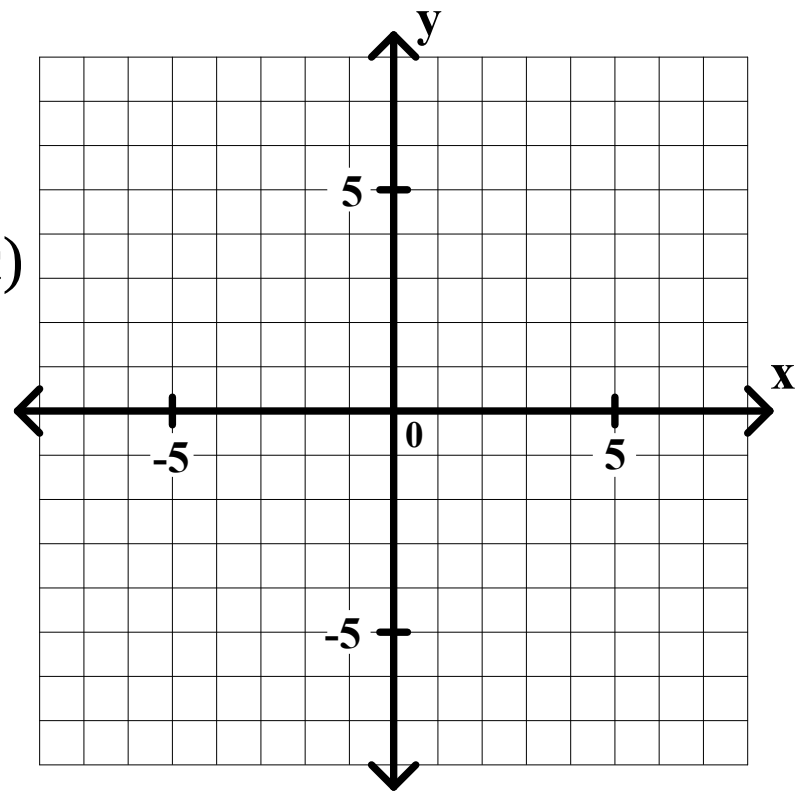

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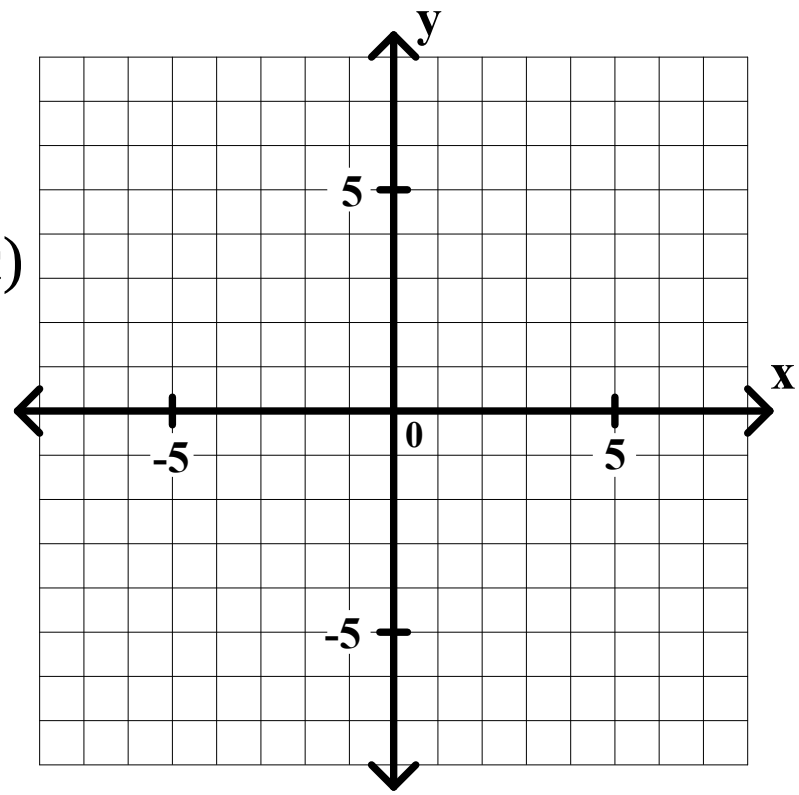

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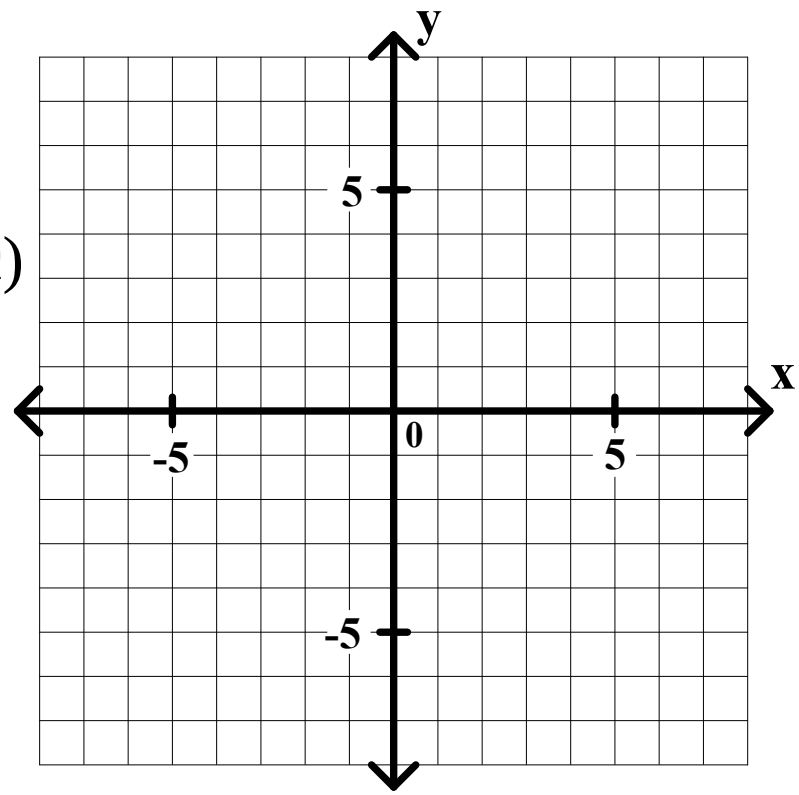

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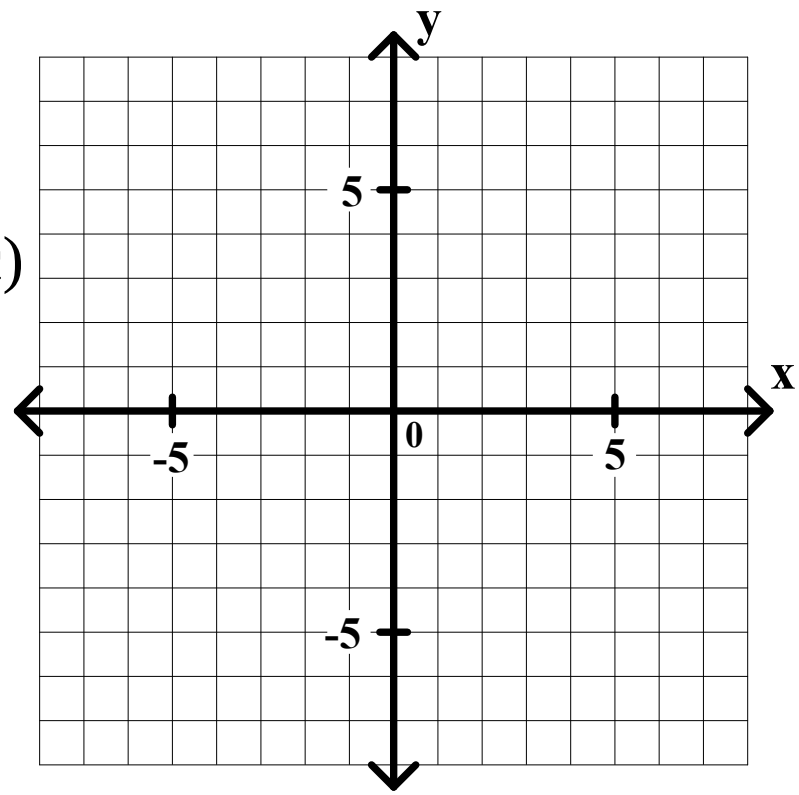

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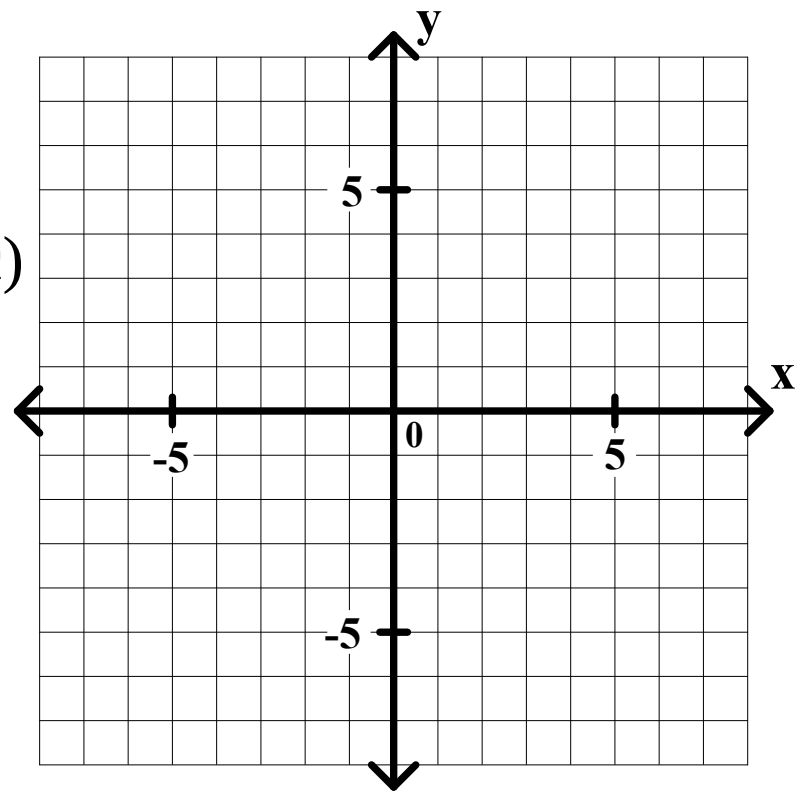

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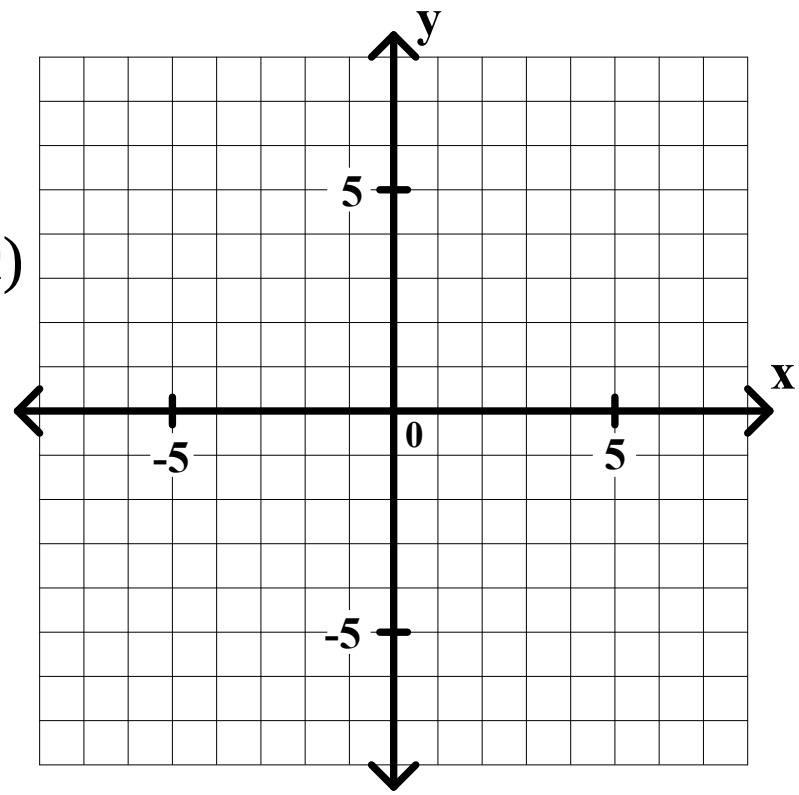

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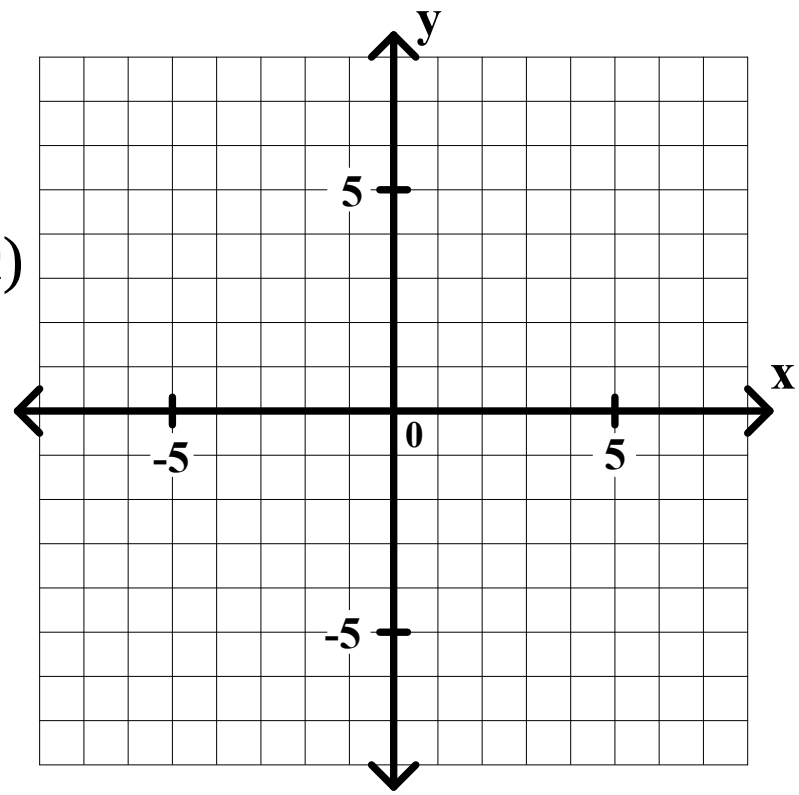

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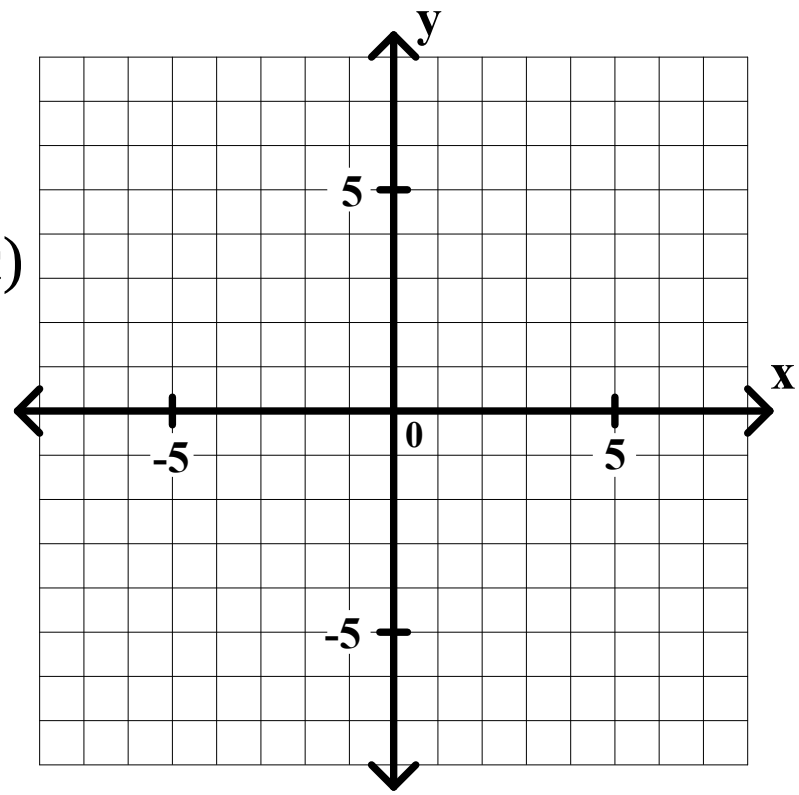

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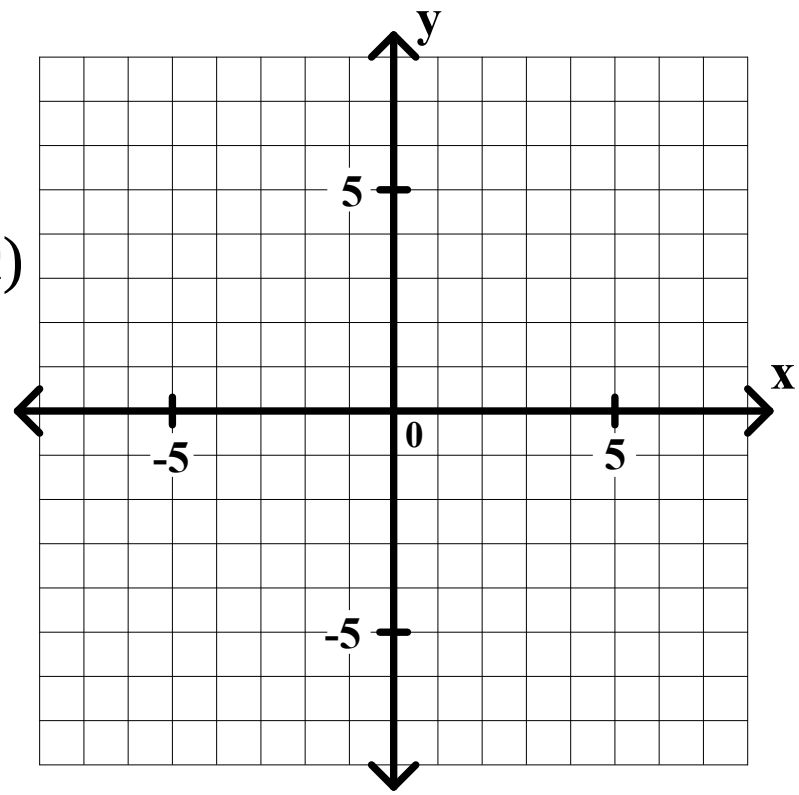

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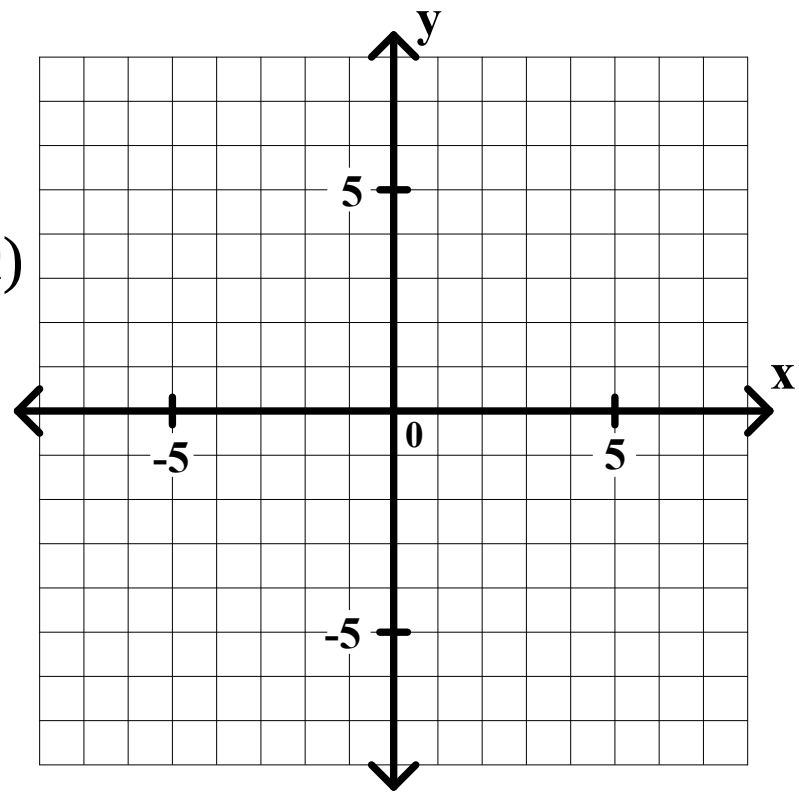

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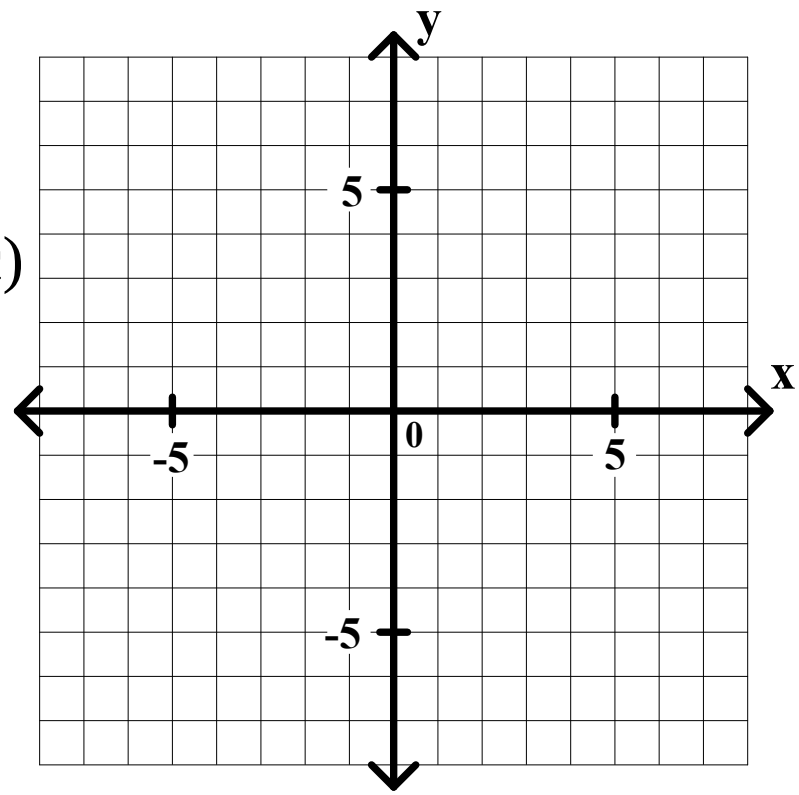

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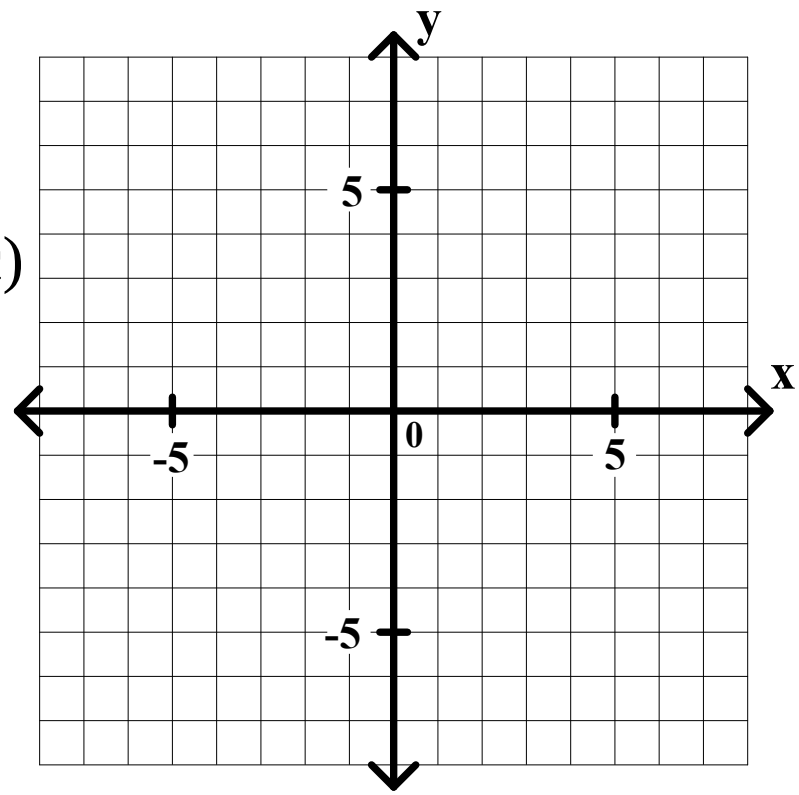

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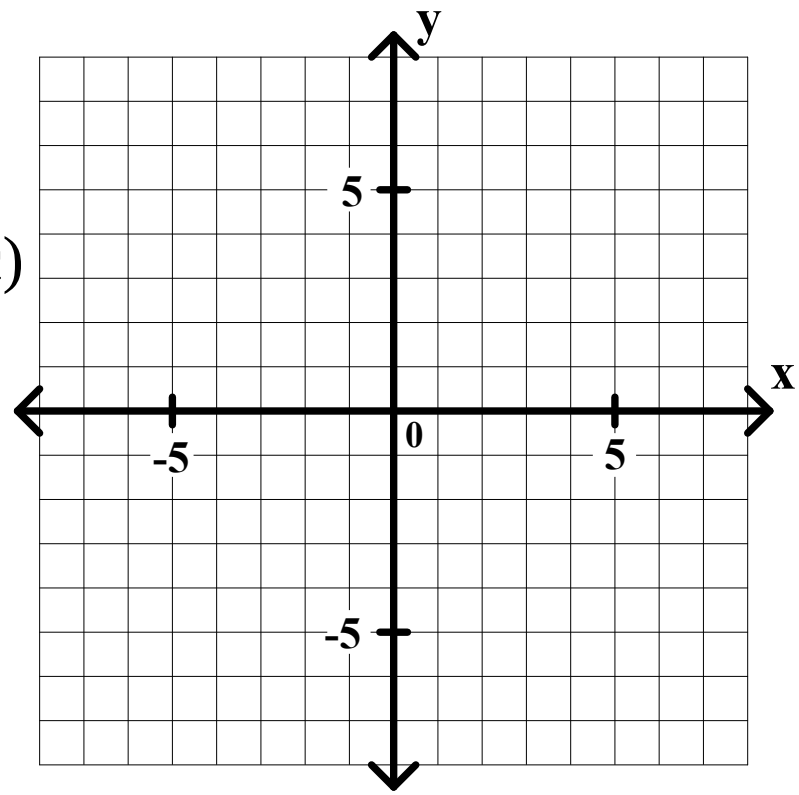

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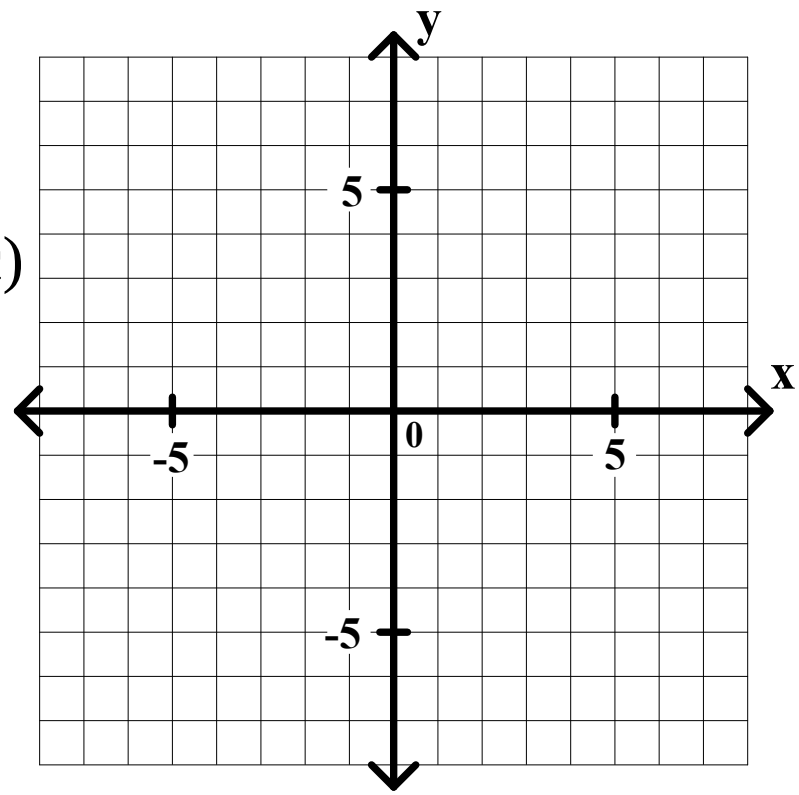

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The slope-intercept equation: $y = mx + b$.

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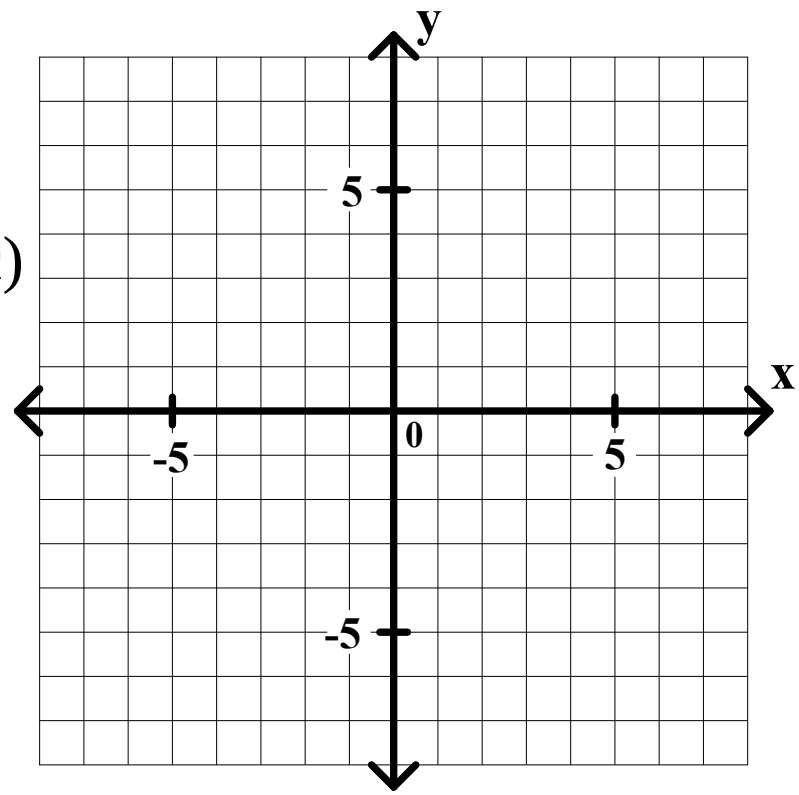

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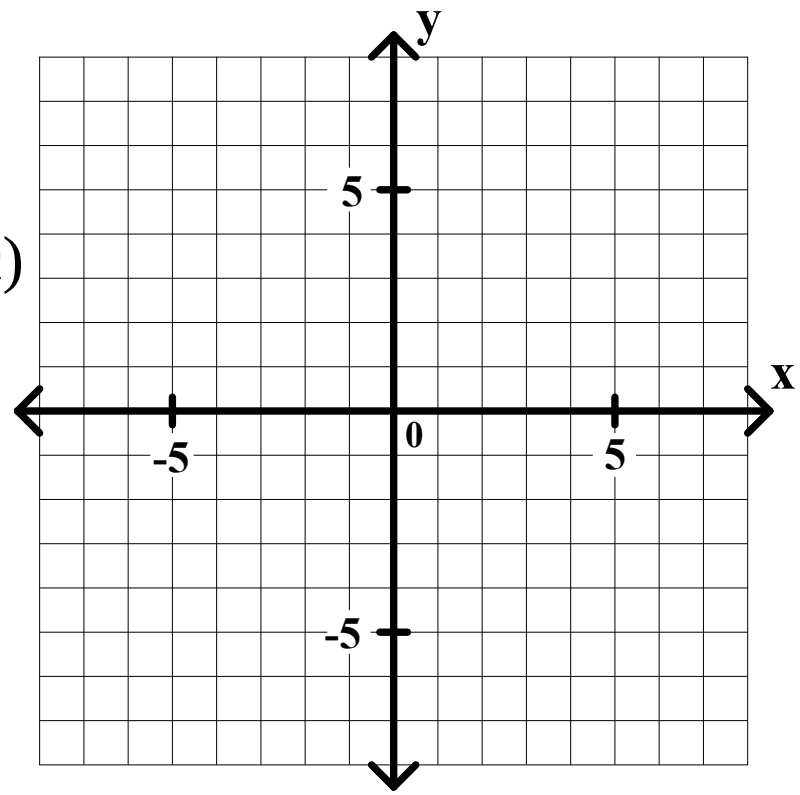

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Solve for y.

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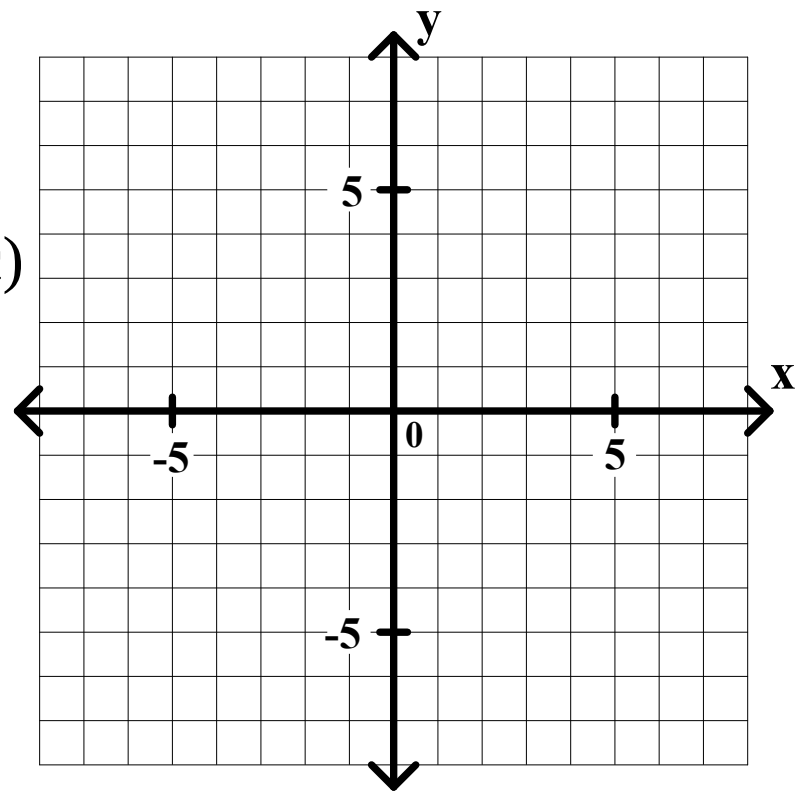

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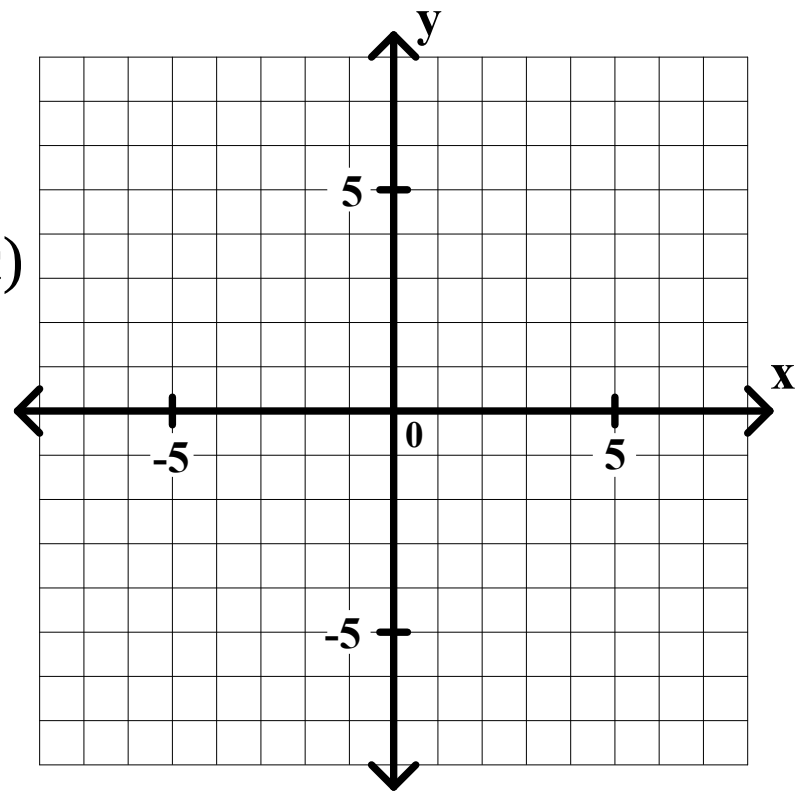

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The slope-intercept equation: $y = mx + b$.

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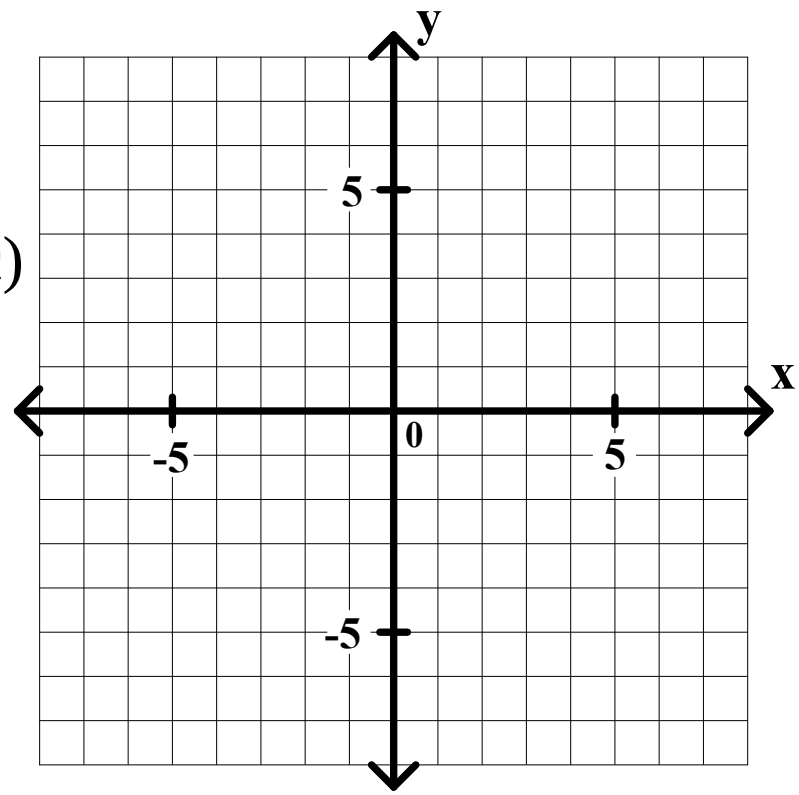

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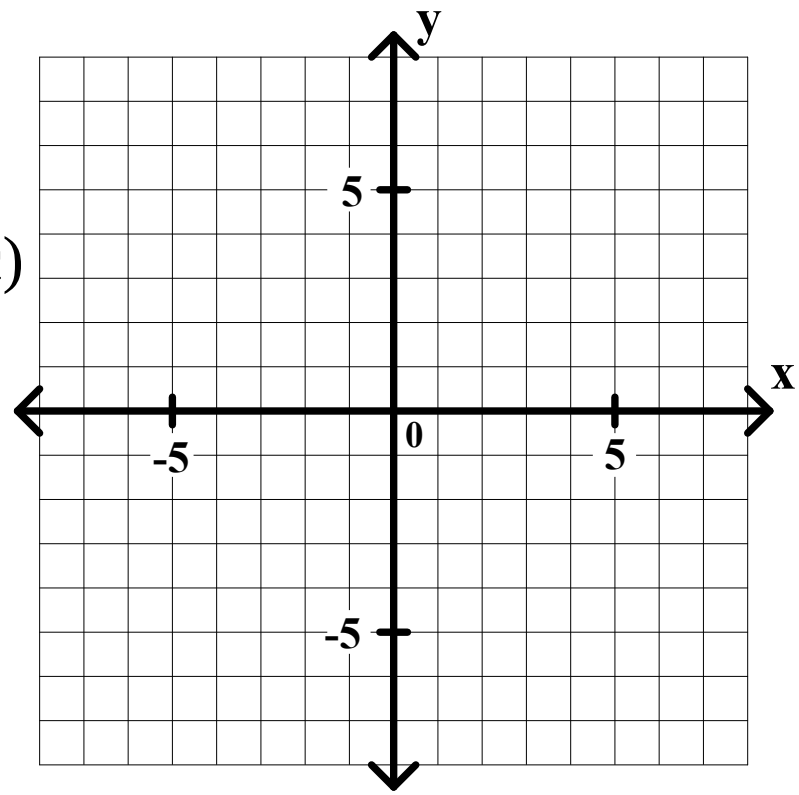

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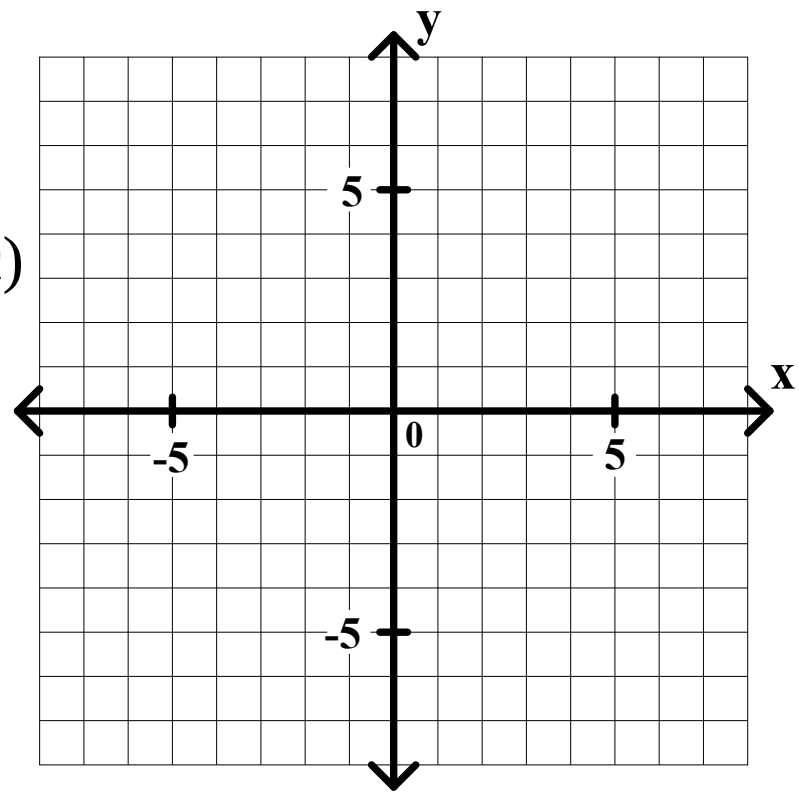

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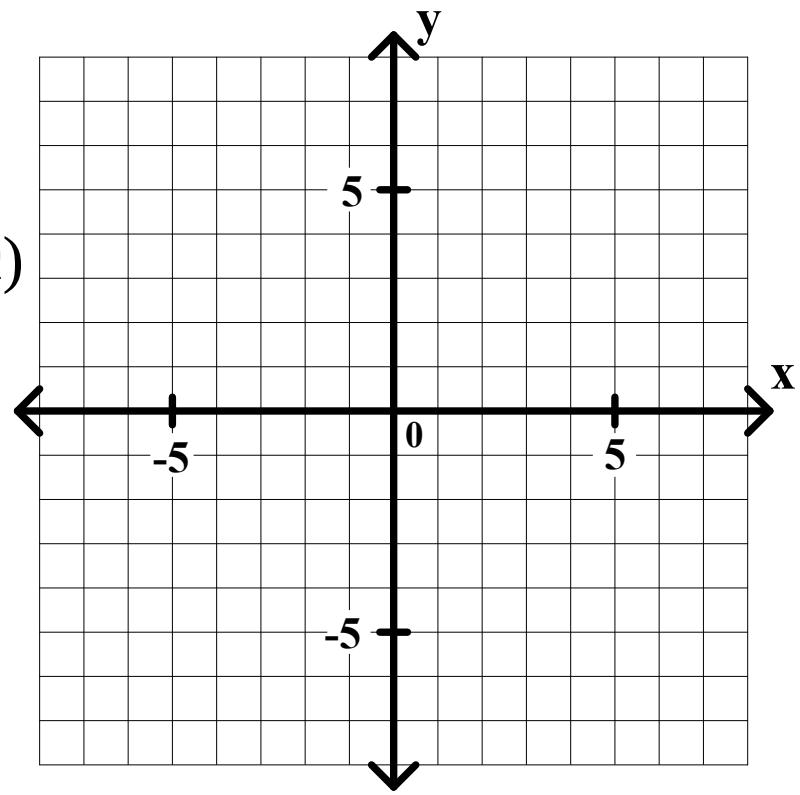

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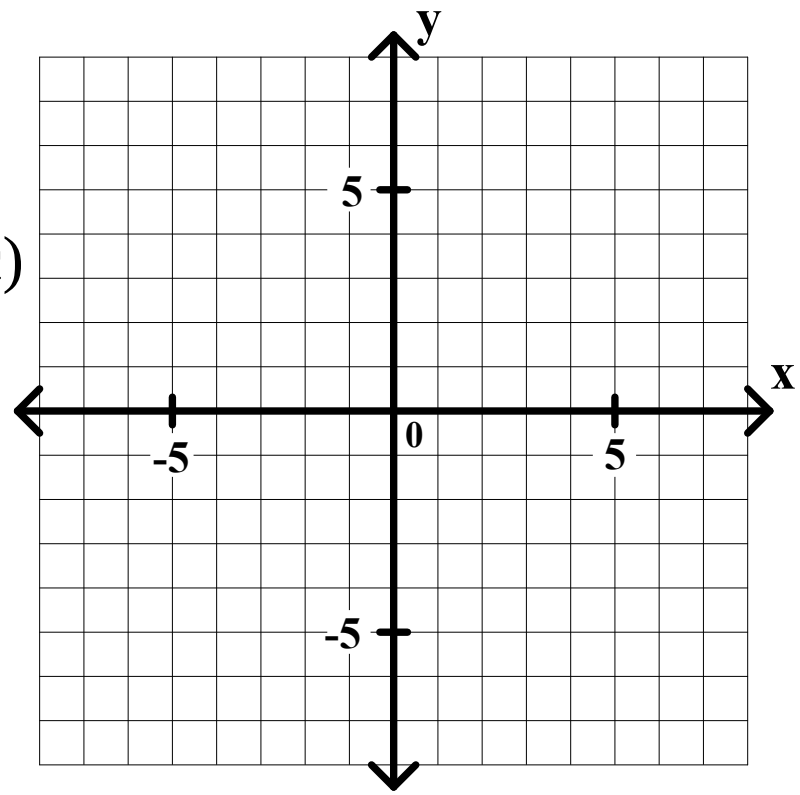

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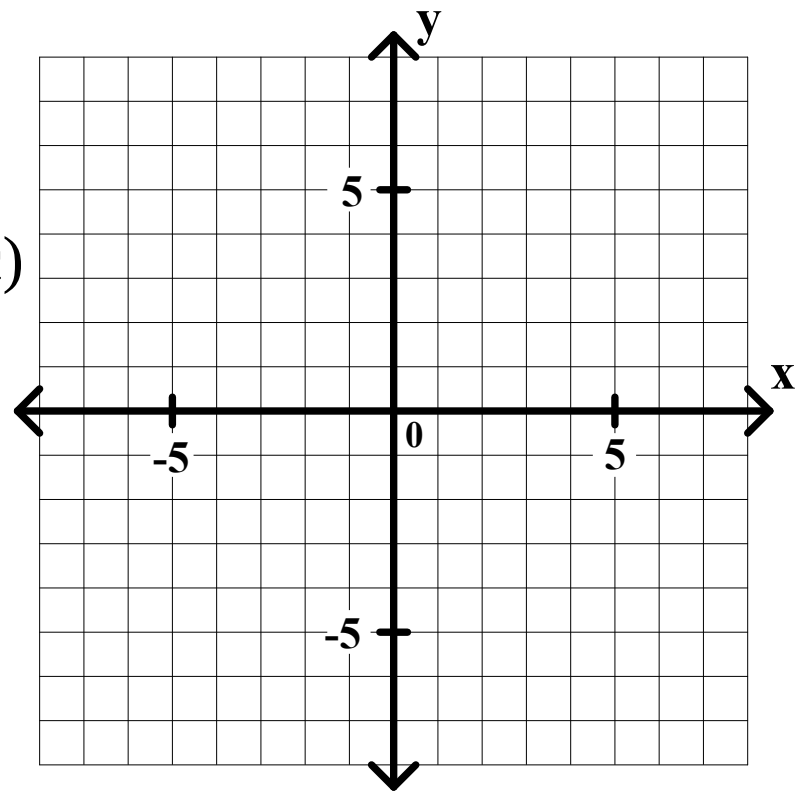

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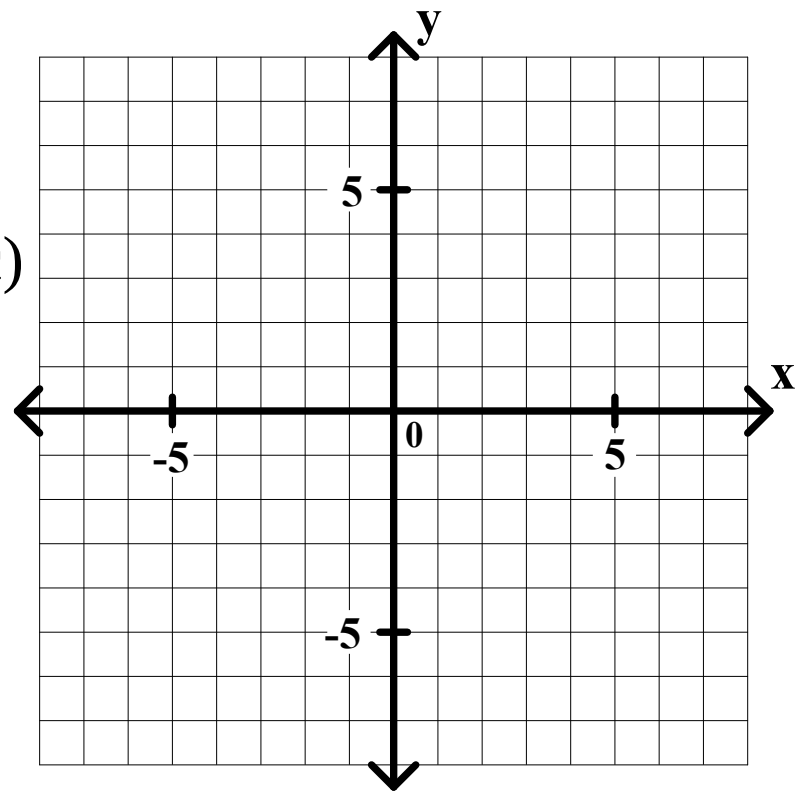

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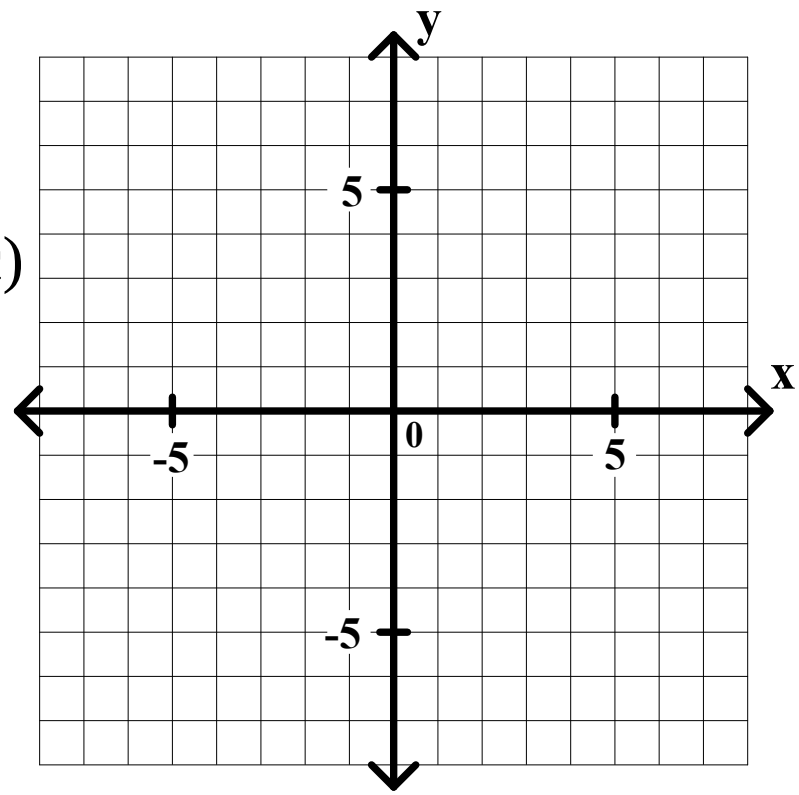

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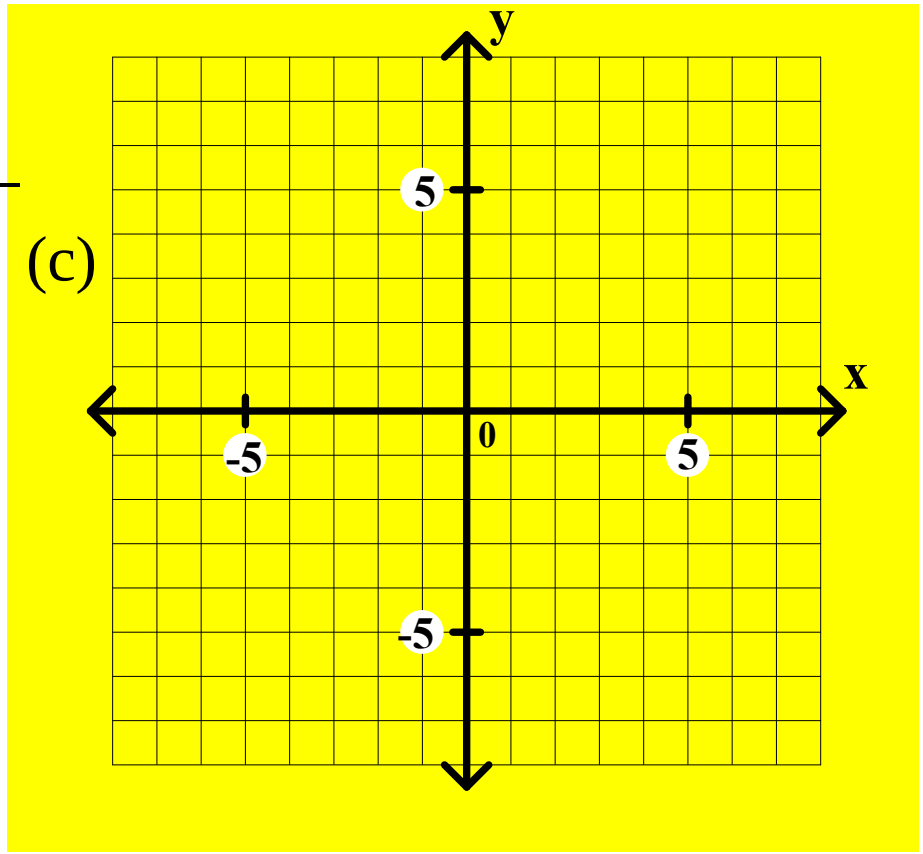

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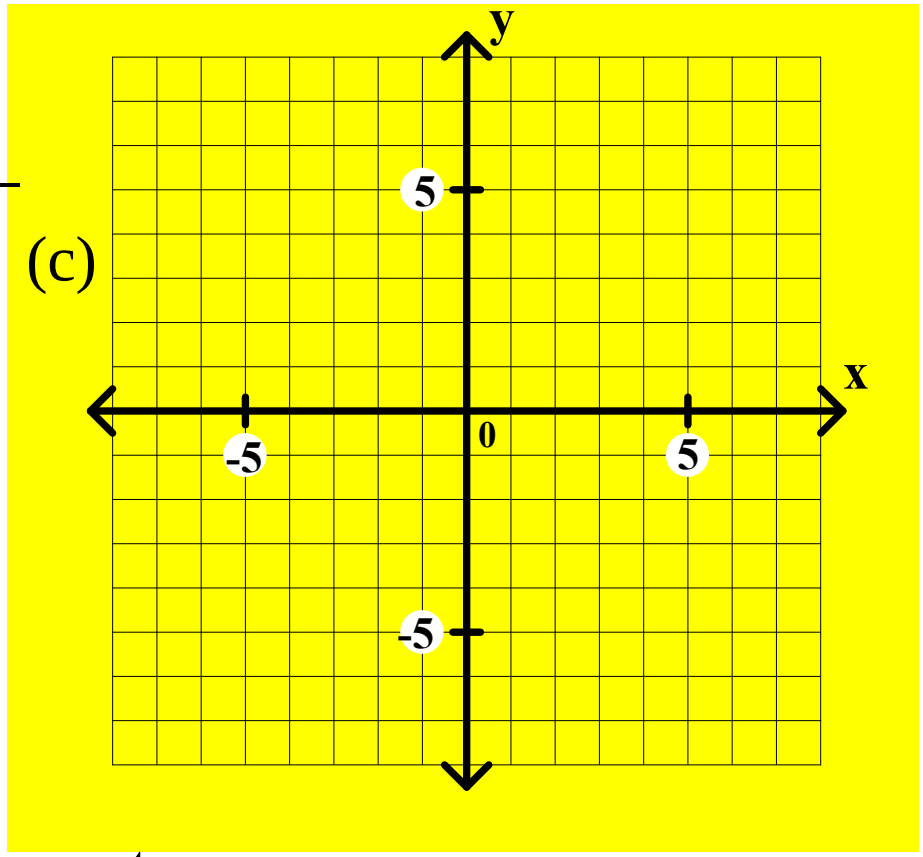

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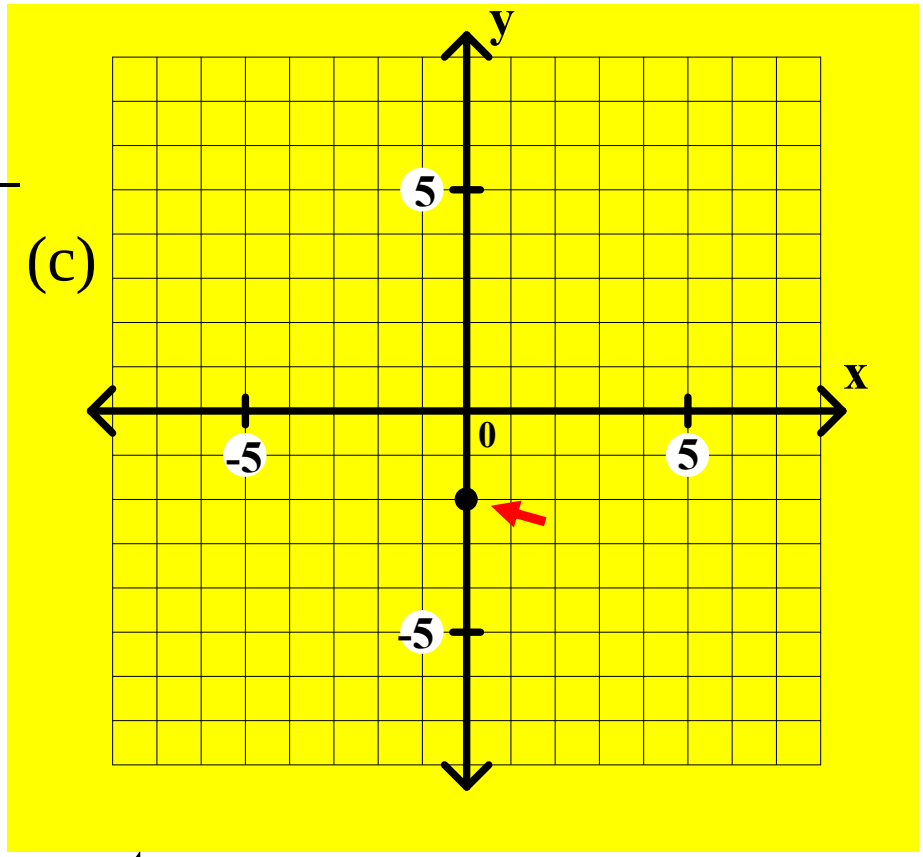

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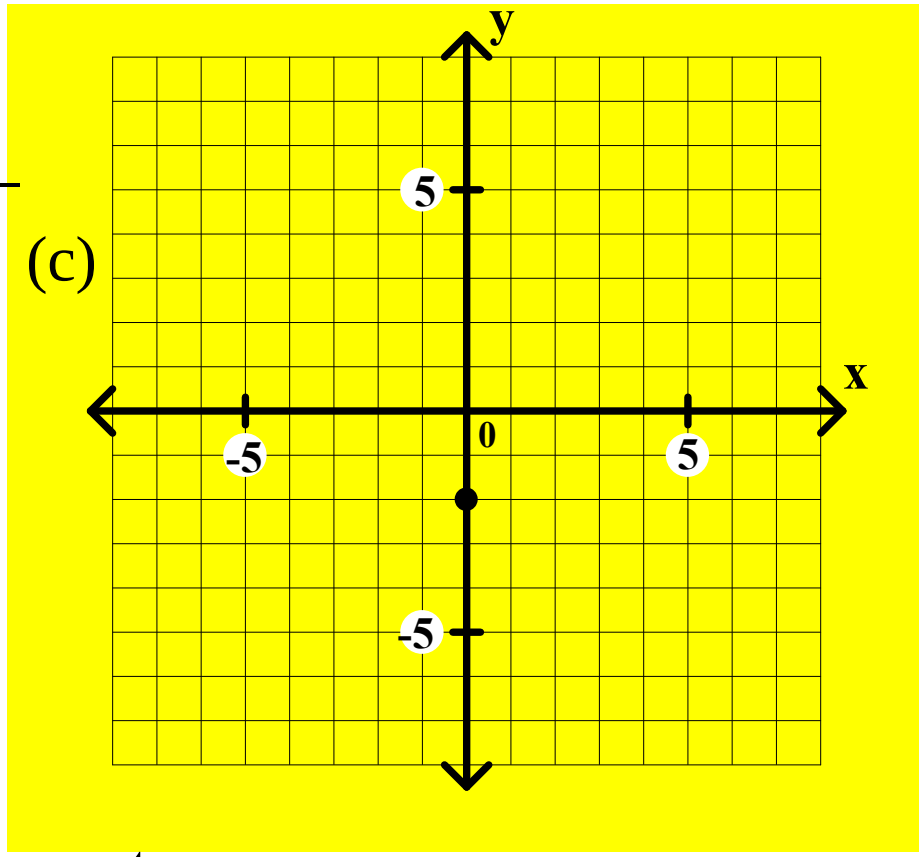

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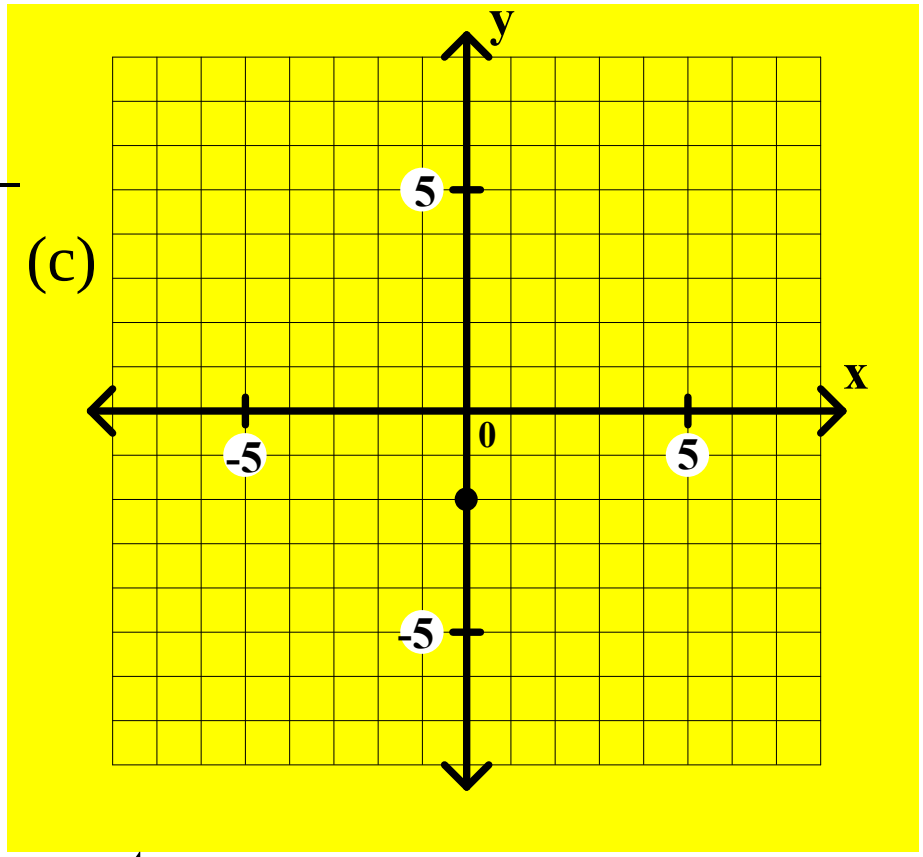

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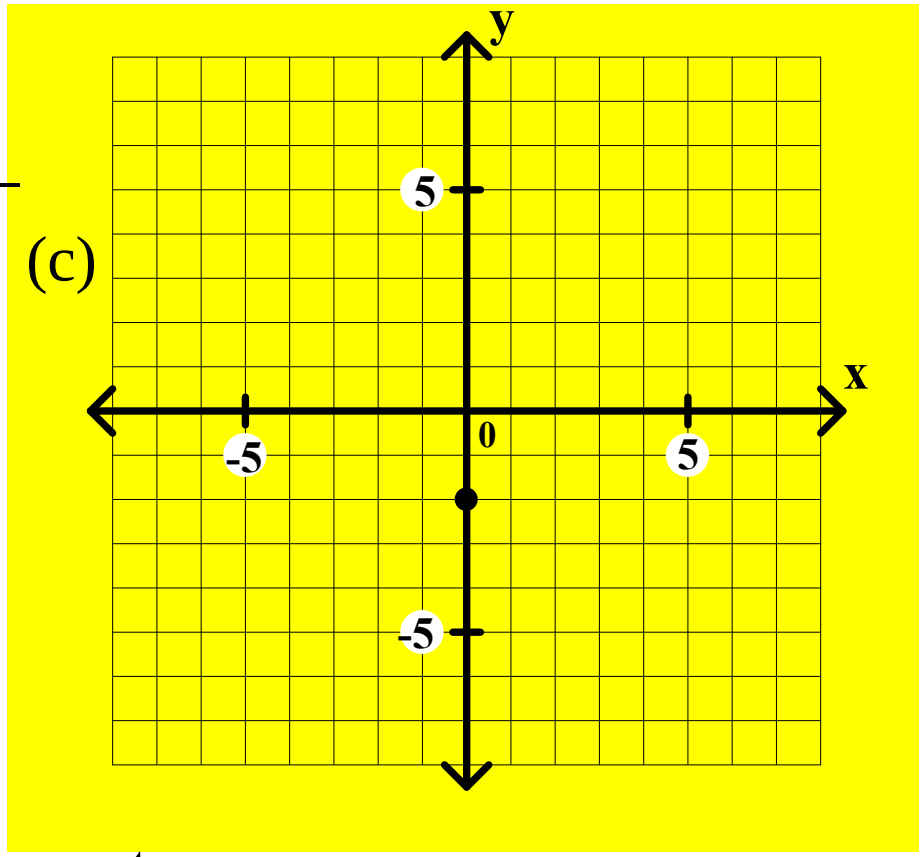

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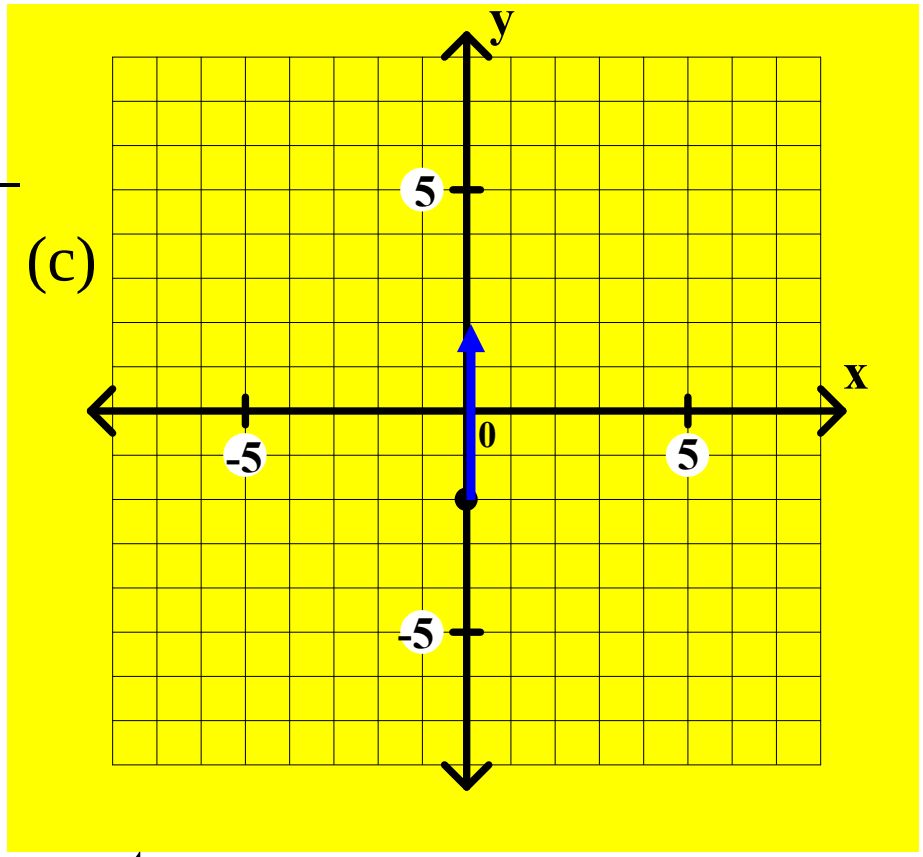

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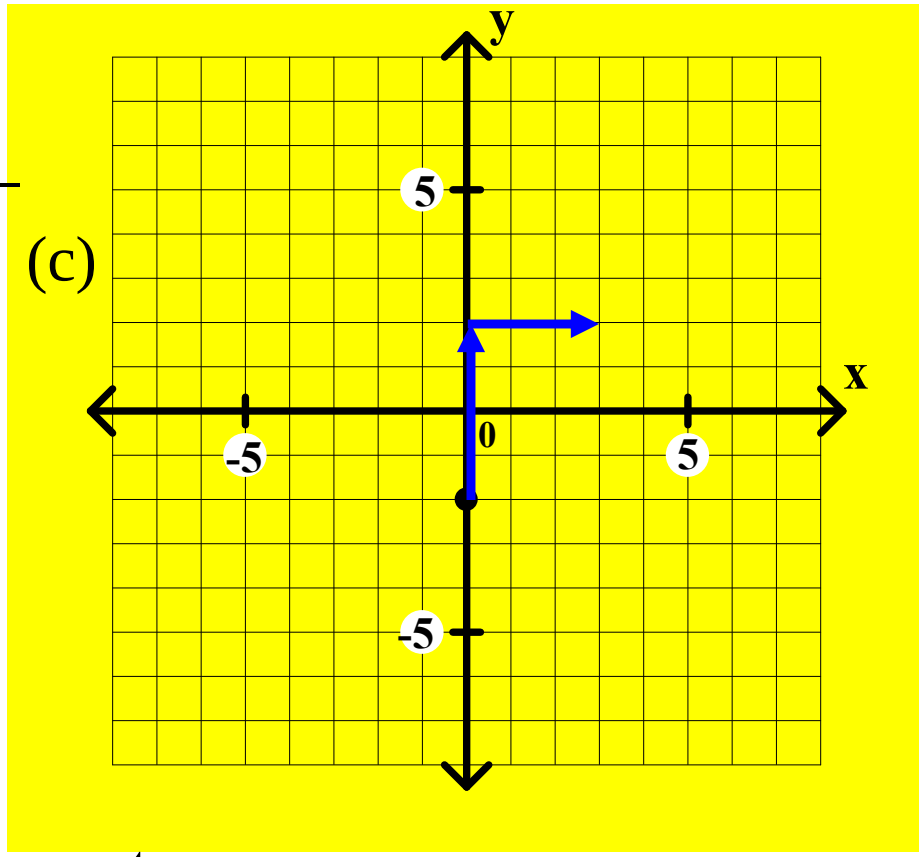

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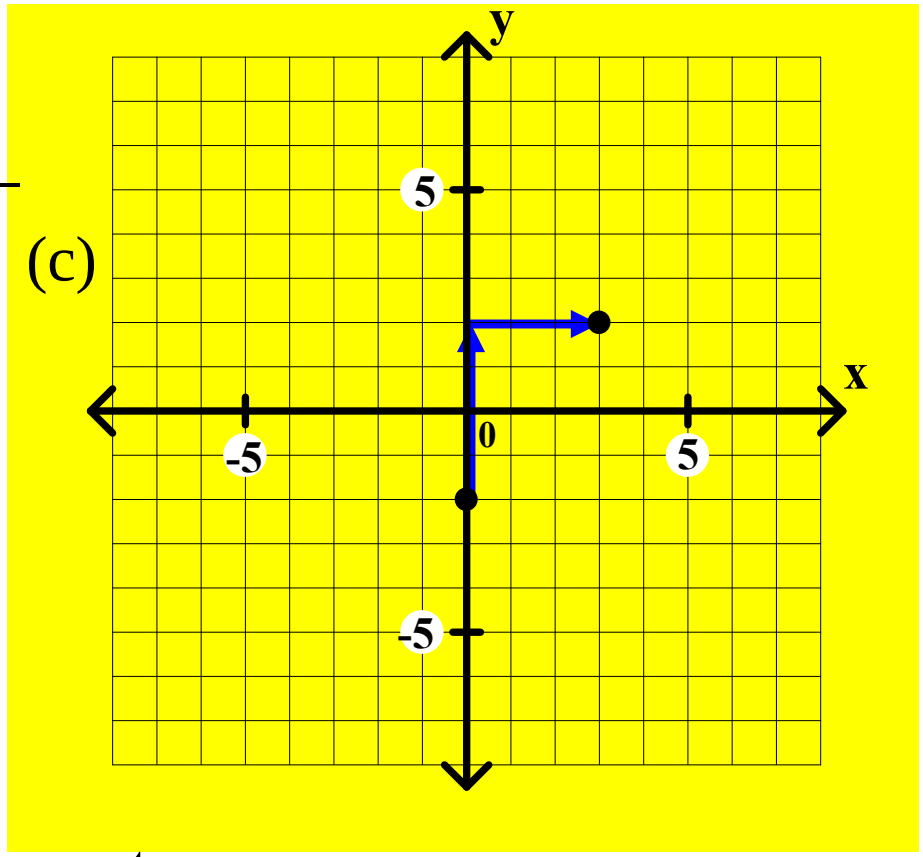

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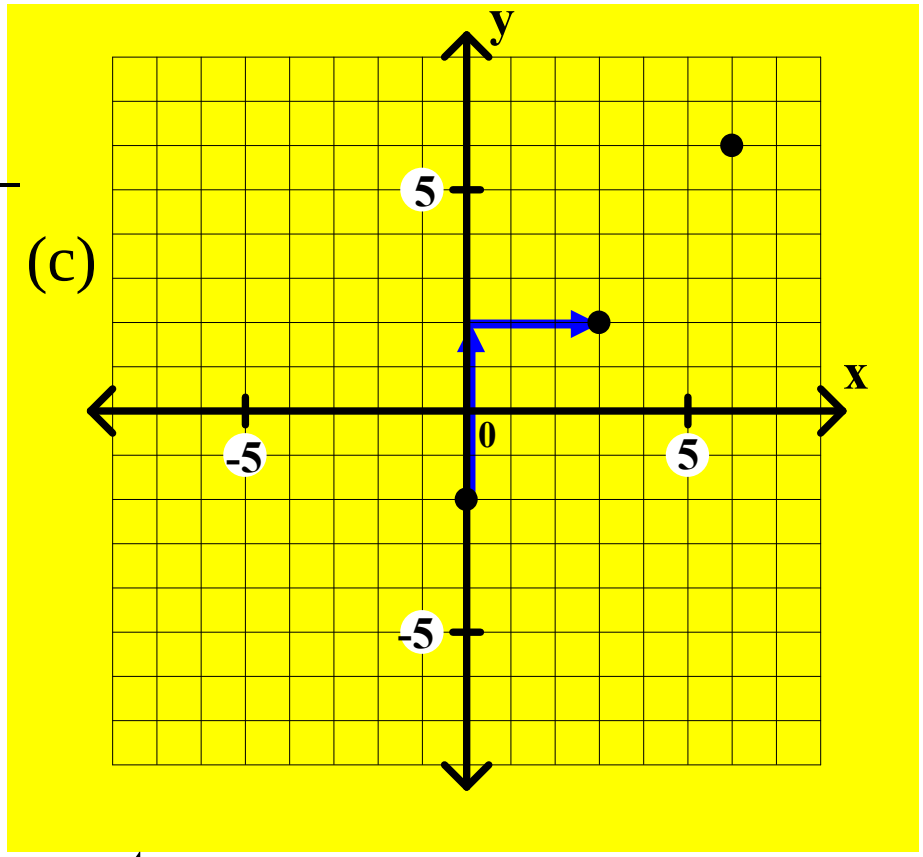

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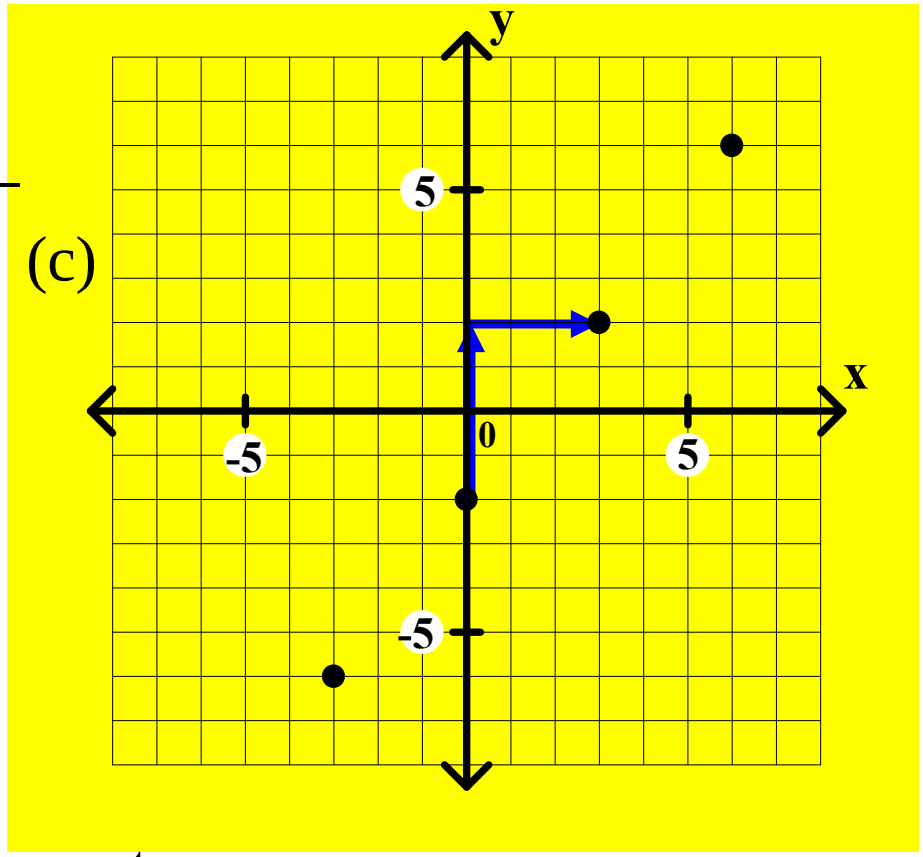

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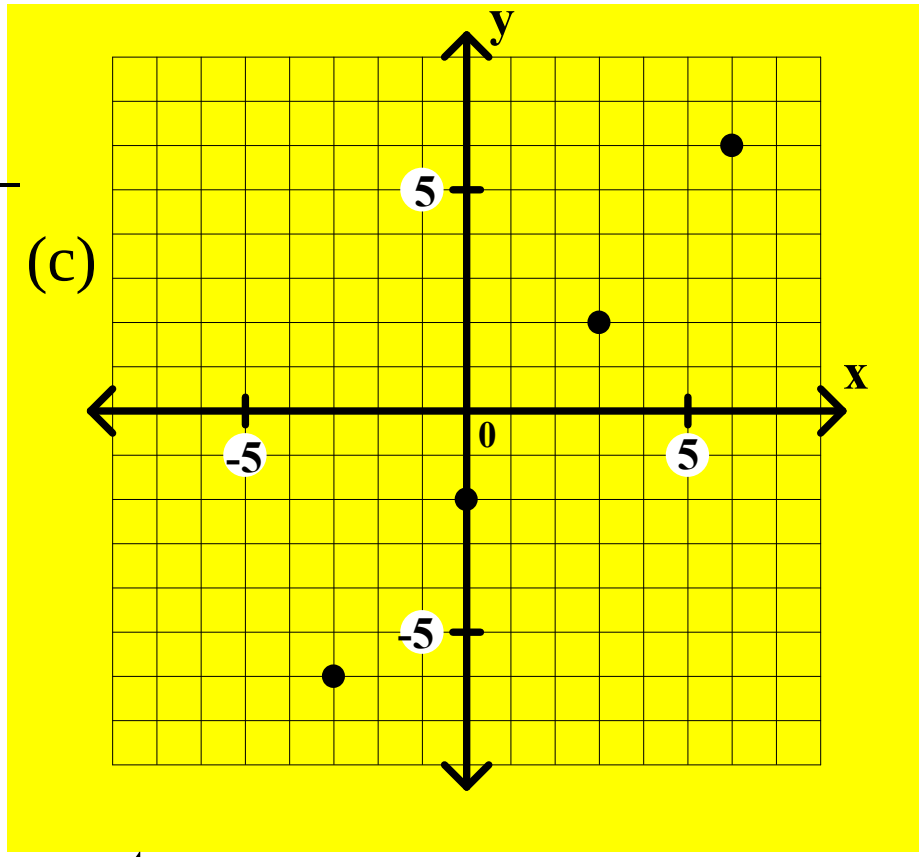

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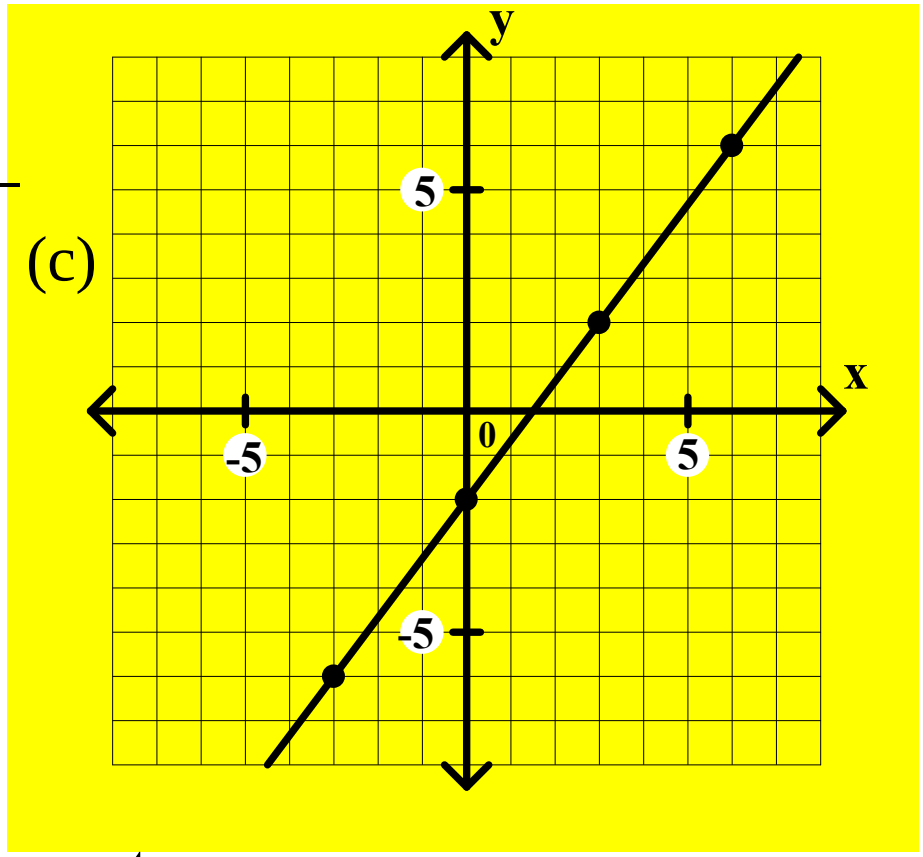

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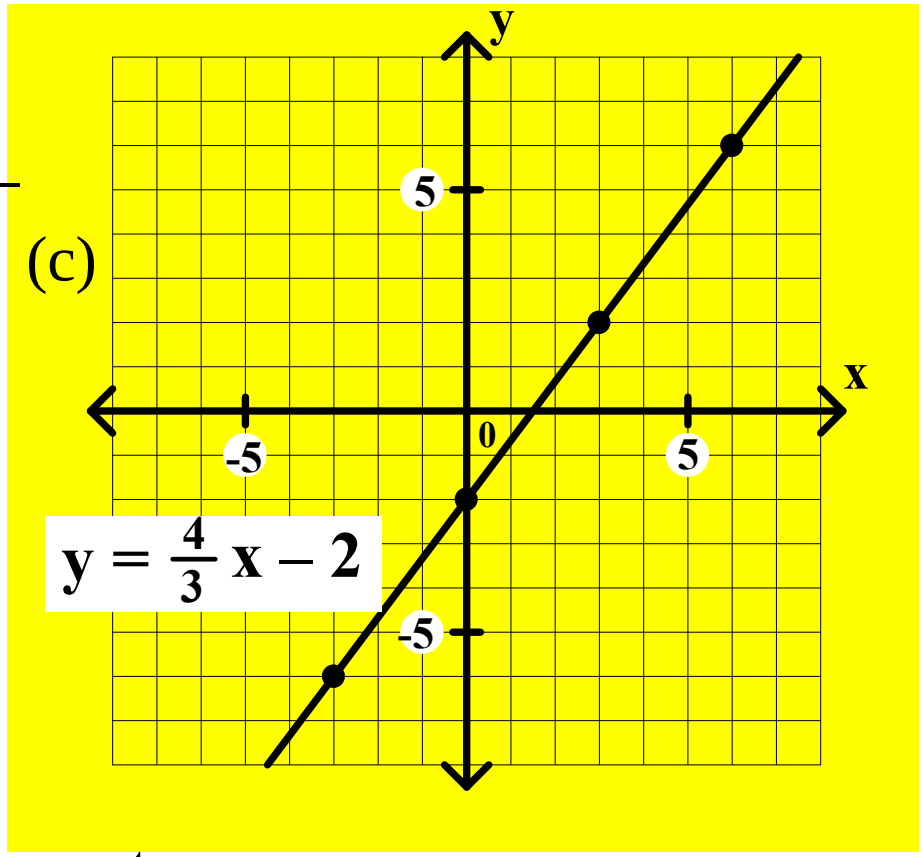


a. $4x - 3y = 6$

$4x - 3(0) = 6$

$4x = 6$

$x = 3/2$

$4x - 3y = 6$

$4(0) - 3y = 6$

$-3y = 6$

$y = -2$

b. $4x - 3y = 6$

$-3y = -4x + 6$

$y = \frac{4}{3}x - 2$

slope y-intercept

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{4}{3}$$

Use the y-intercept and the slope to graph the equation.

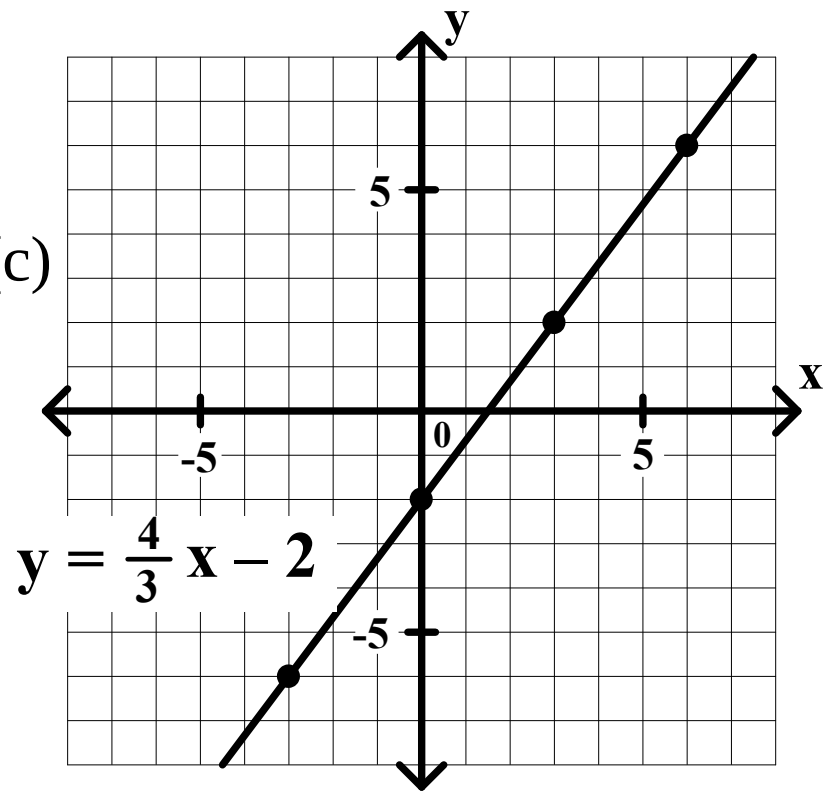
Algebra II Class Worksheet #1 Unit 2

1. $4x - 3y = 6$

(a) x intercept: **3/2** y intercept: **-2**

(b) slope-intercept equation: $y = \frac{4}{3}x - 2$

(c)



a. $4x - 3y = 6$

$4x - 3(0) = 6$

$4x = 6$

$x = 3/2$

b. $4x - 3y = 6$

$-3y = -4x + 6$

$y = \frac{4}{3}x - 2$

$4x - 3y = 6$

$4(0) - 3y = 6$

$-3y = 6$

$y = -2$

Algebra II Class Worksheet #1 Unit 2

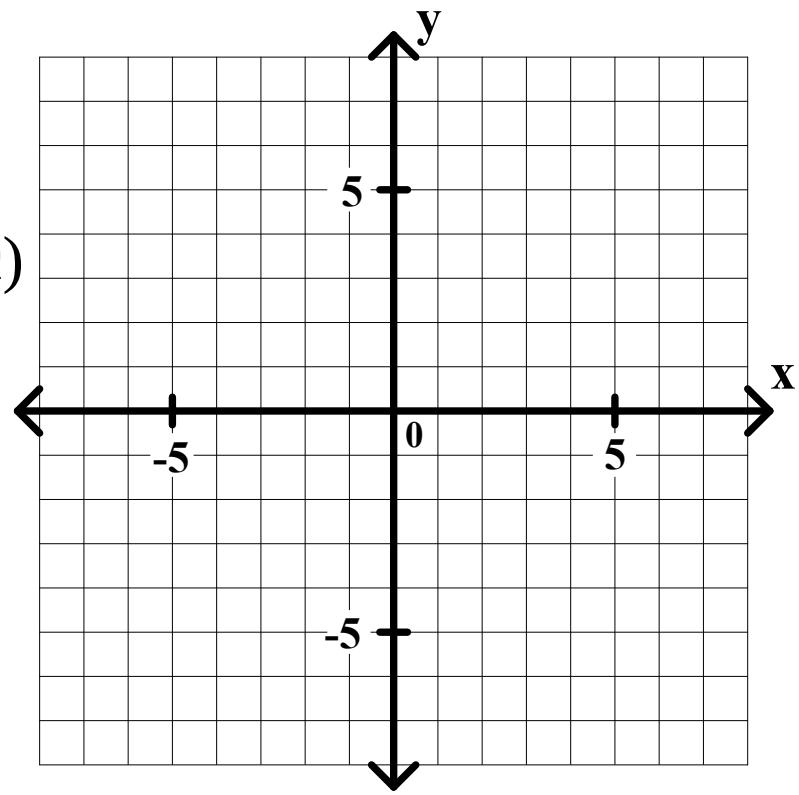
2. $2x + 5y = -10$

(a) x intercept: ___ y intercept: ___

(b) slope-intercept equation:

_____

(c)



Algebra II Class Worksheet #1 Unit 2

2. $2x + 5y = -10$

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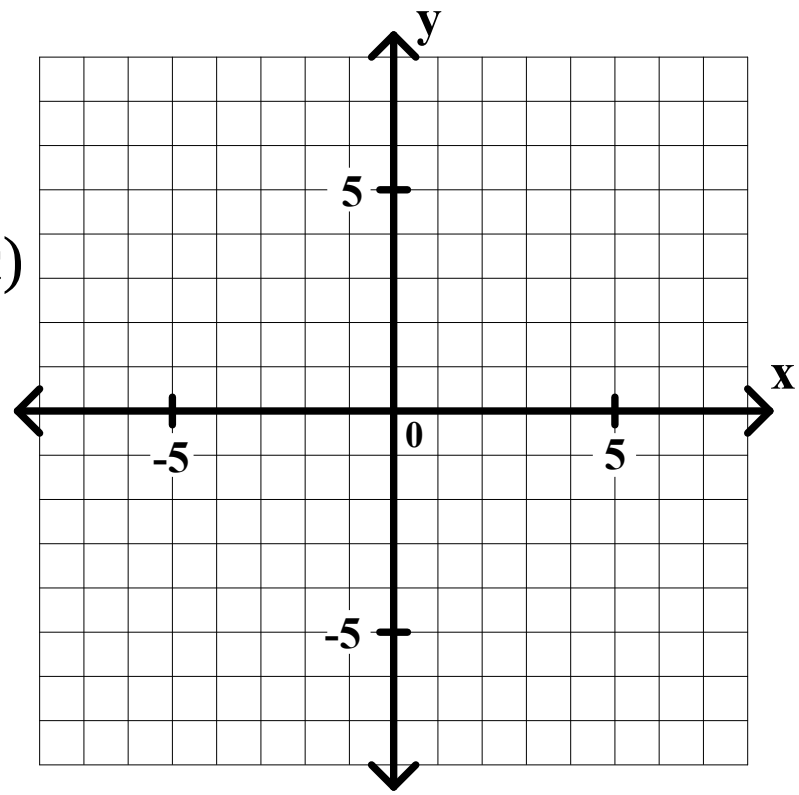

Algebra II Class Worksheet #1 Unit 2

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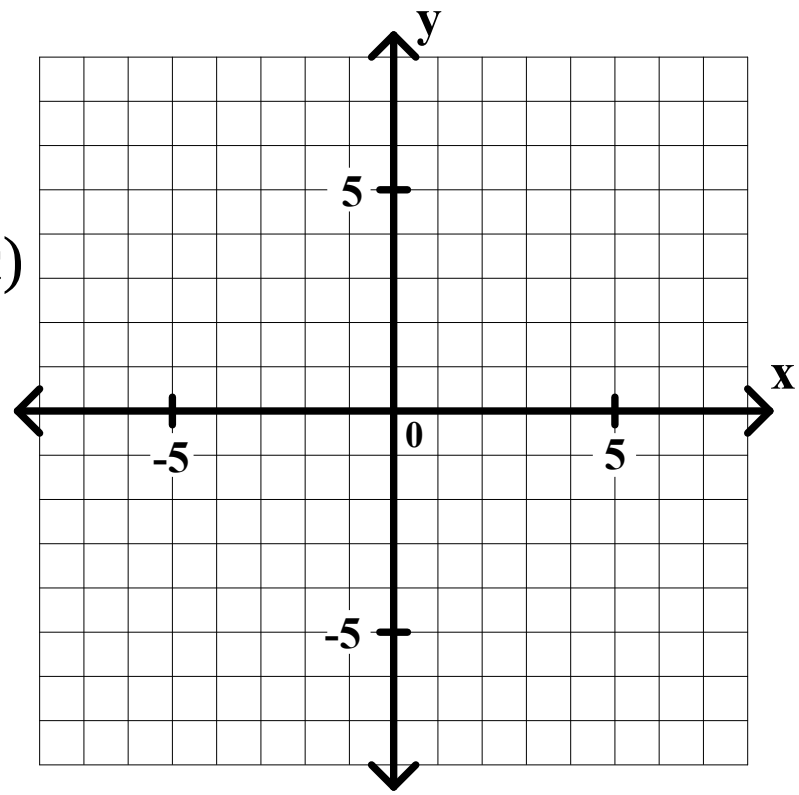


The x-intercept is the value of x when y = 0.

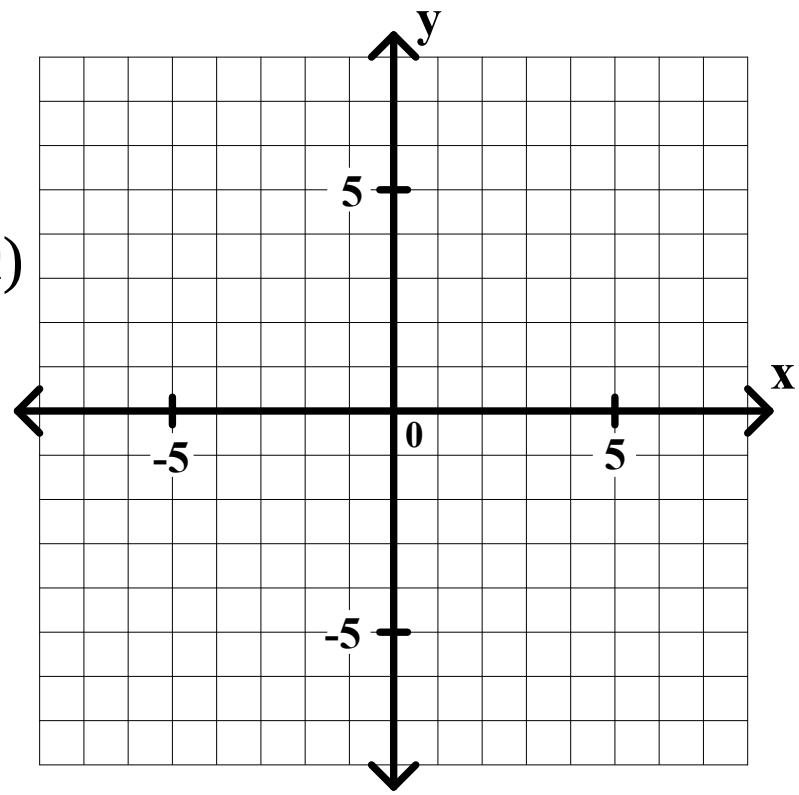
Algebra II Class Worksheet #1 Unit 2

2. $2x + 5y = -10$

(a) x intercept: ___ y intercept: ___

(b) slope-intercept equation:

(c)



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Algebra II Class Worksheet #1 Unit 2

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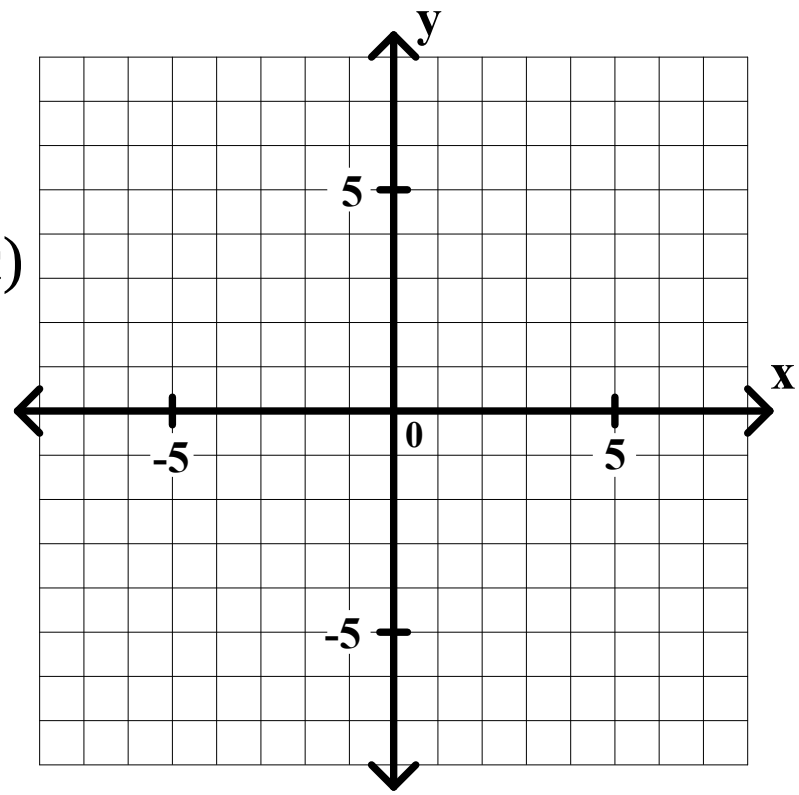

a. 2x + 5y = -10

2x

The x-intercept is the value of x when y = 0.

Algebra II Class Worksheet #1 Unit 2

2. $2x + 5y = -10$

(a) x intercept: ___ y intercept: ___

(b) slope-intercept equation:

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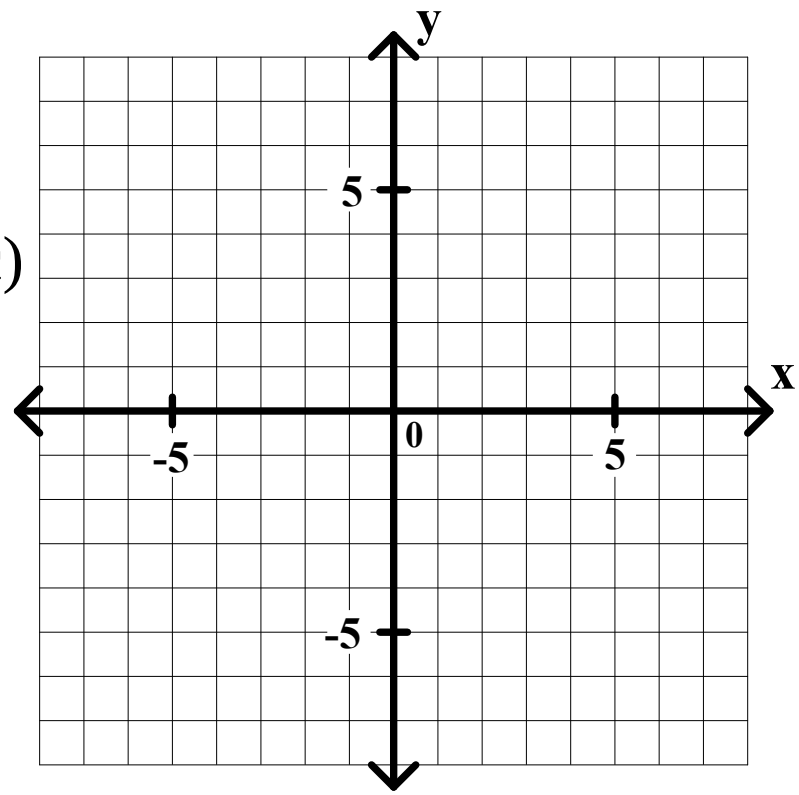


a. 2x + 5y = -10

2x + 5(0)

The x-intercept is the value of x when y = 0.

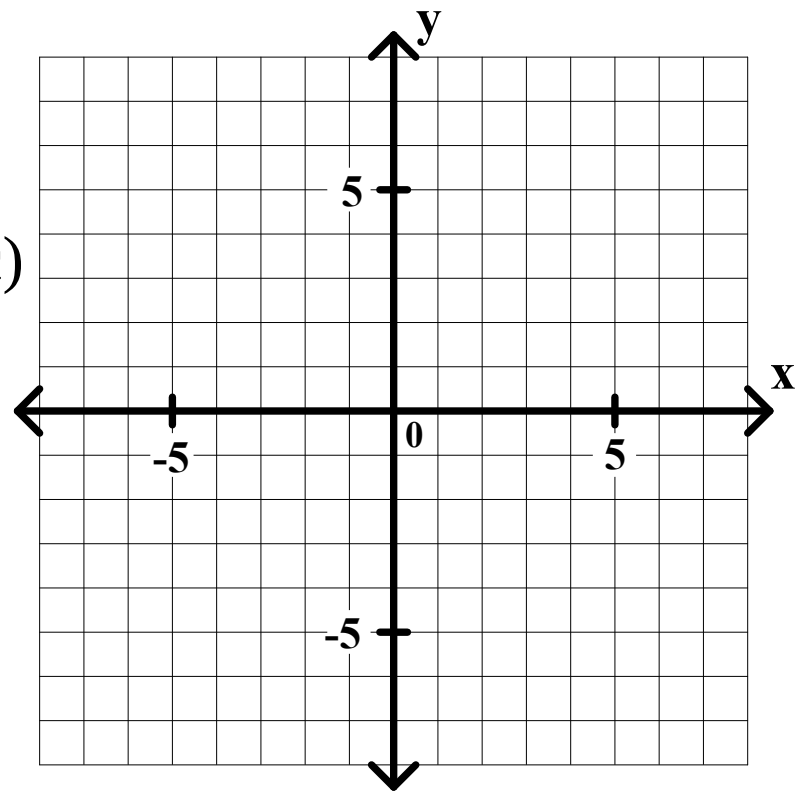
Algebra II Class Worksheet #1 Unit 2

2. $2x + 5y = -10$

(a) x intercept: ___ y intercept: ___

(b) slope-intercept equation:

(c)



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Algebra II Class Worksheet #1 Unit 2

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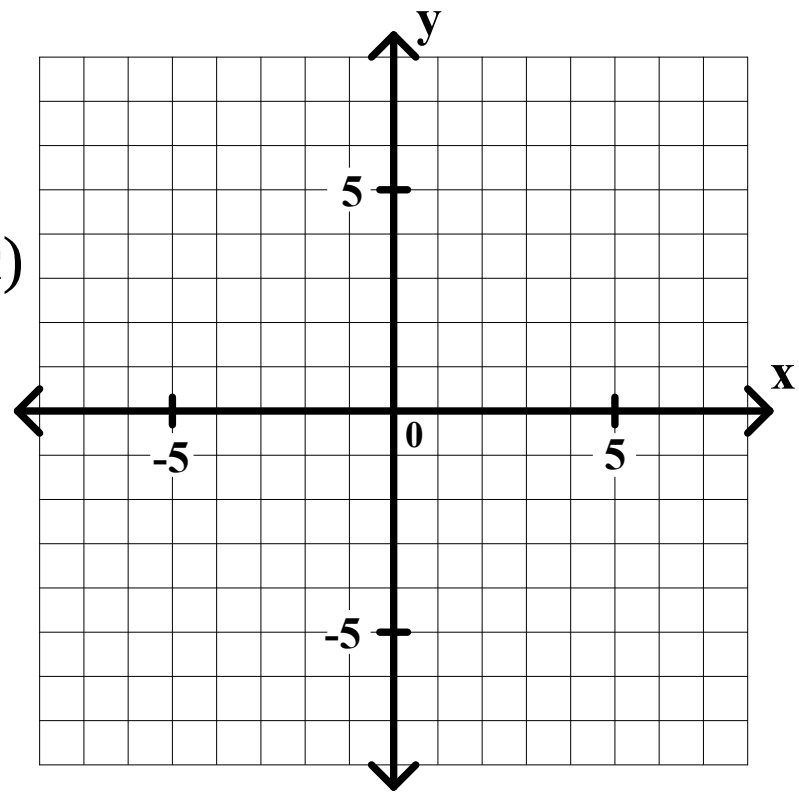

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2x + 5(0) = -10

2x =

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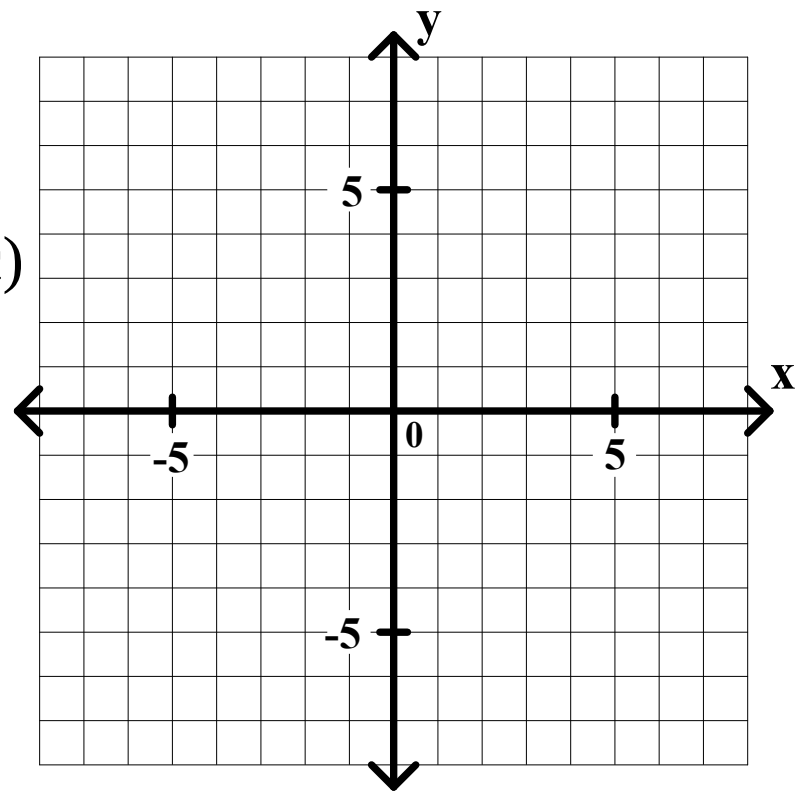

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2x + 5(0) = -10

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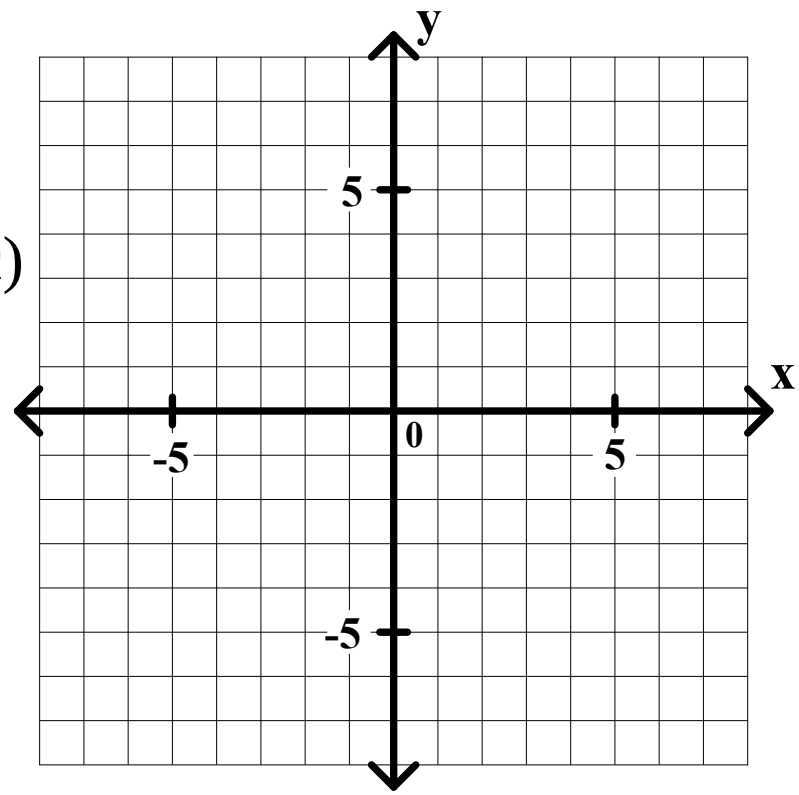


a. 2x + 5y = -10

2x + 5(0) = -10

2x = -10

x =

The x-intercept is the value of x when y = 0.

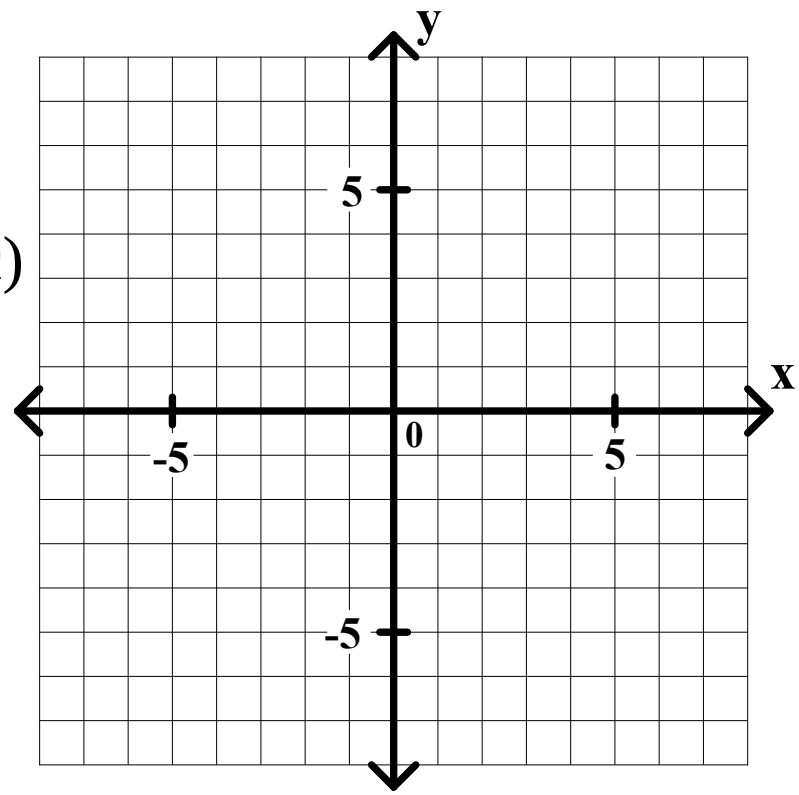
Algebra II Class Worksheet #1 Unit 2

2. $2x + 5y = -10$

(a) x intercept: ___ y intercept: ___

(b) slope-intercept equation: _____

(c)



a. 2x + 5y = -10

2x + 5(0) = -10

2x = -10

x = -5

The x-intercept is the value of x when y = 0.

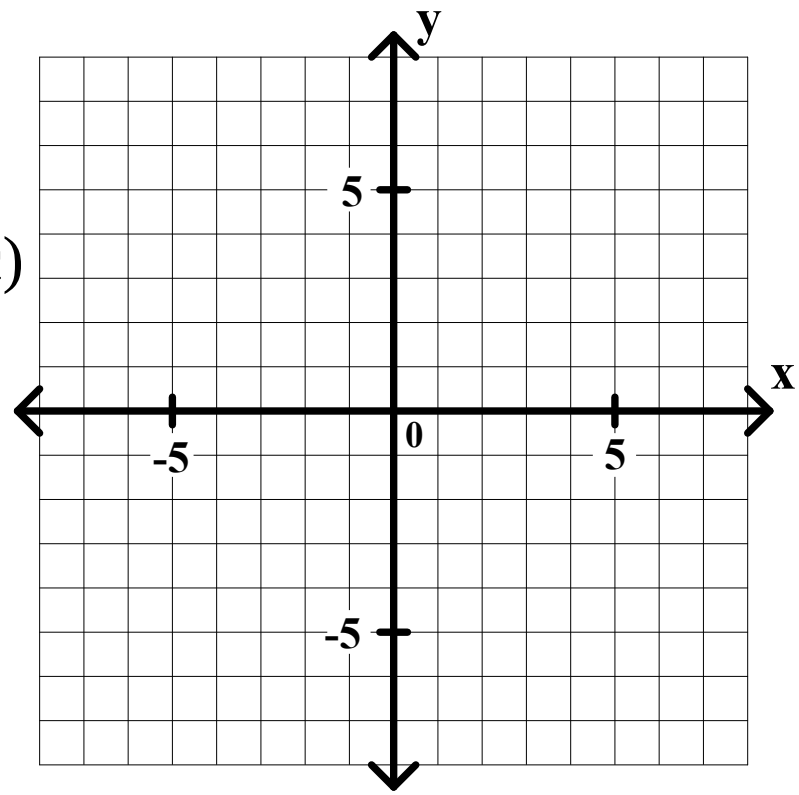
Algebra II Class Worksheet #1 Unit 2

2. $2x + 5y = -10$

(a) x intercept: **-5** y intercept: ___

(b) slope-intercept equation:

(c)



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x = -5

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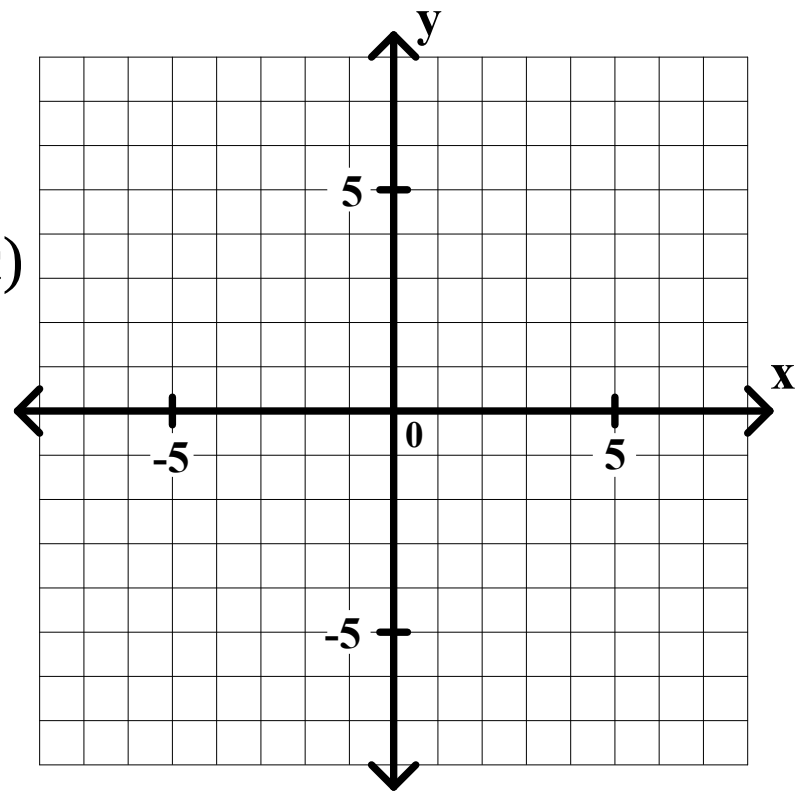

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Algebra II Class Worksheet #1 Unit 2

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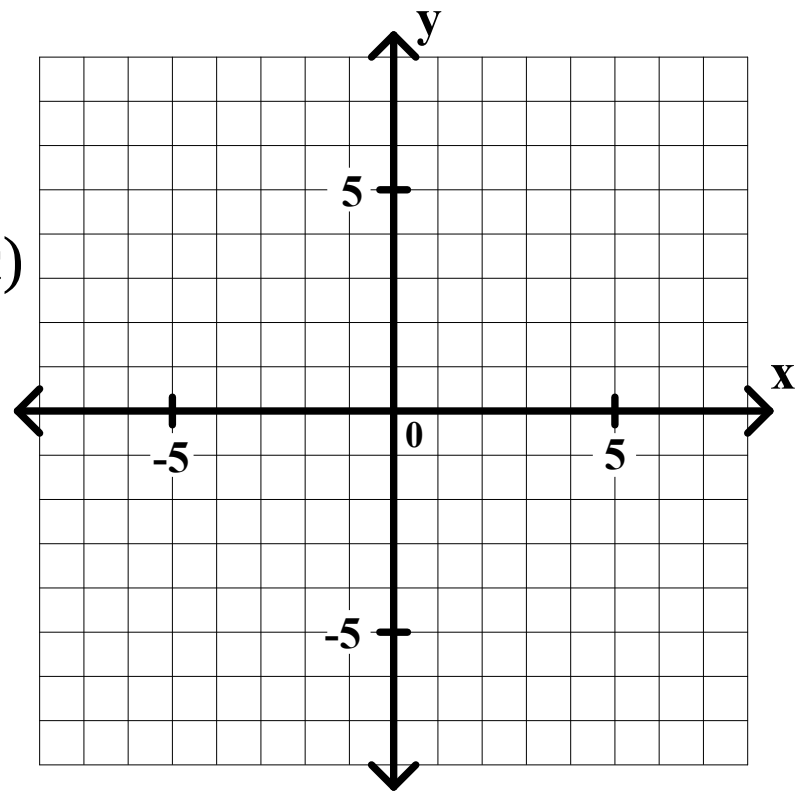

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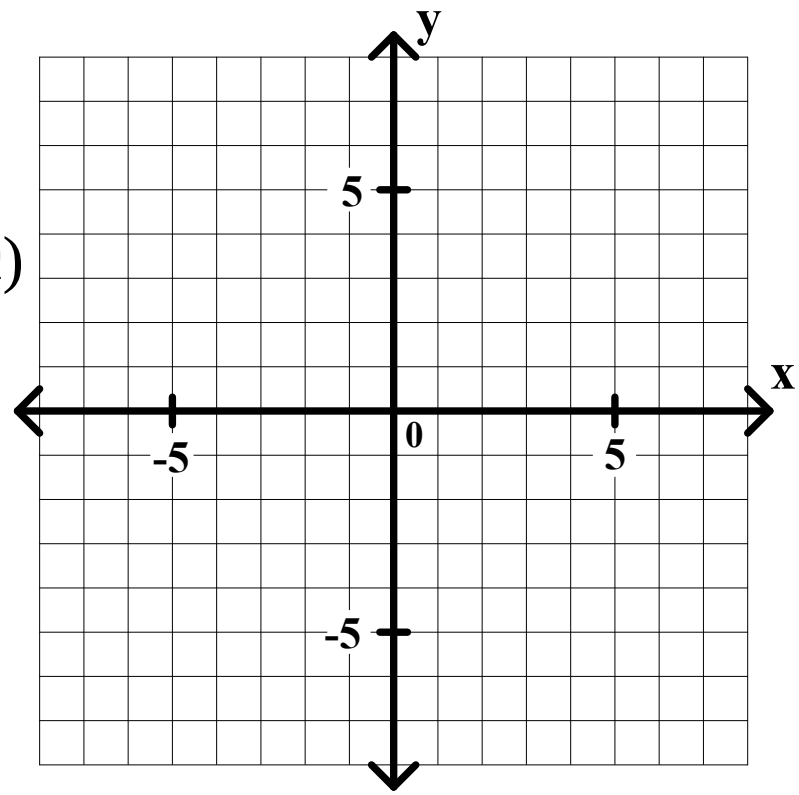

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The y-intercept is the value of y when x = 0.

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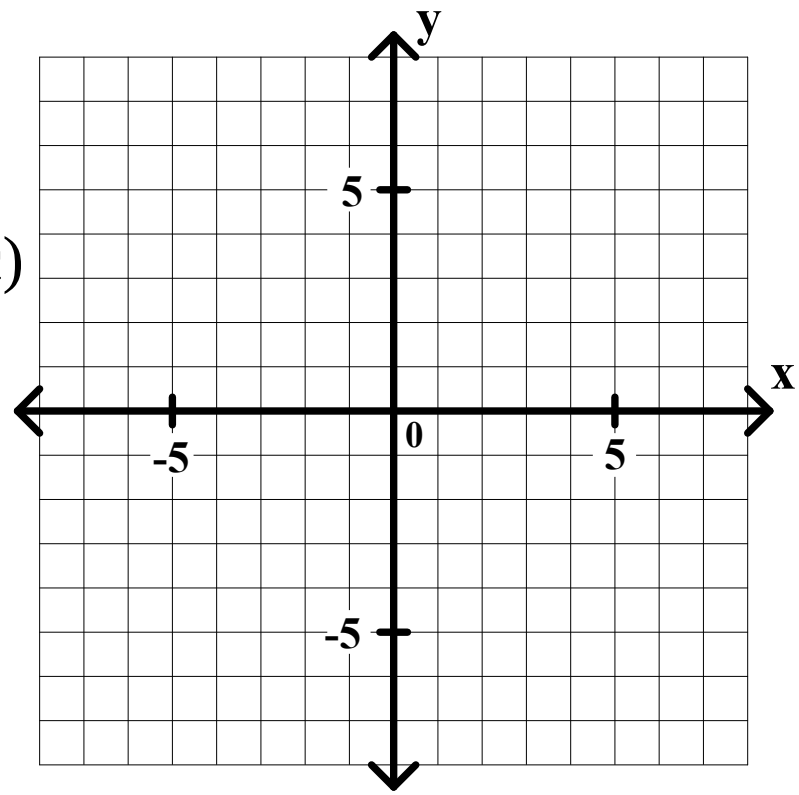

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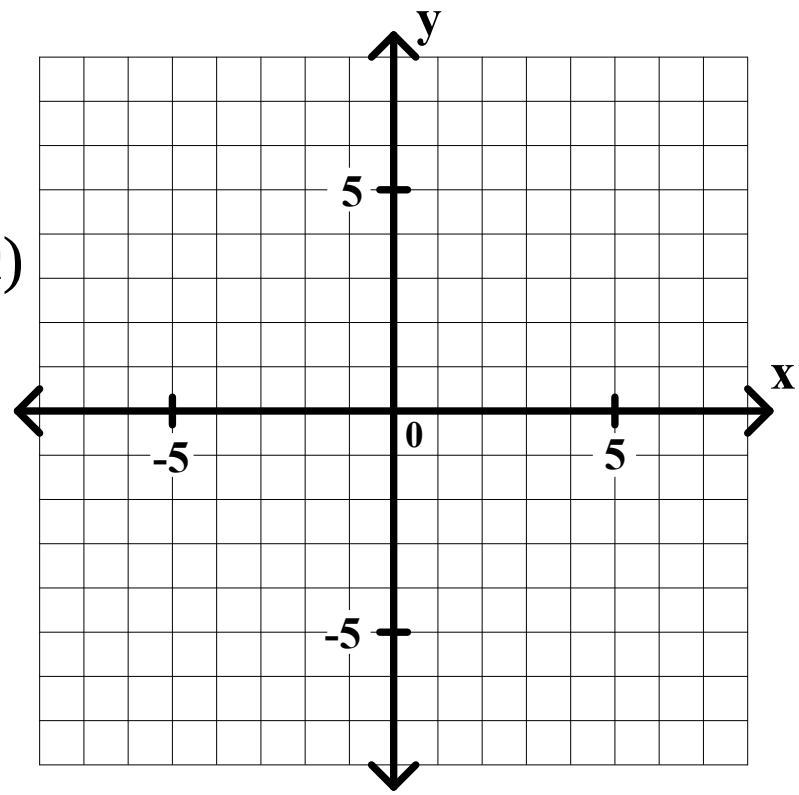

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$2(0)$

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Algebra II Class Worksheet #1 Unit 2

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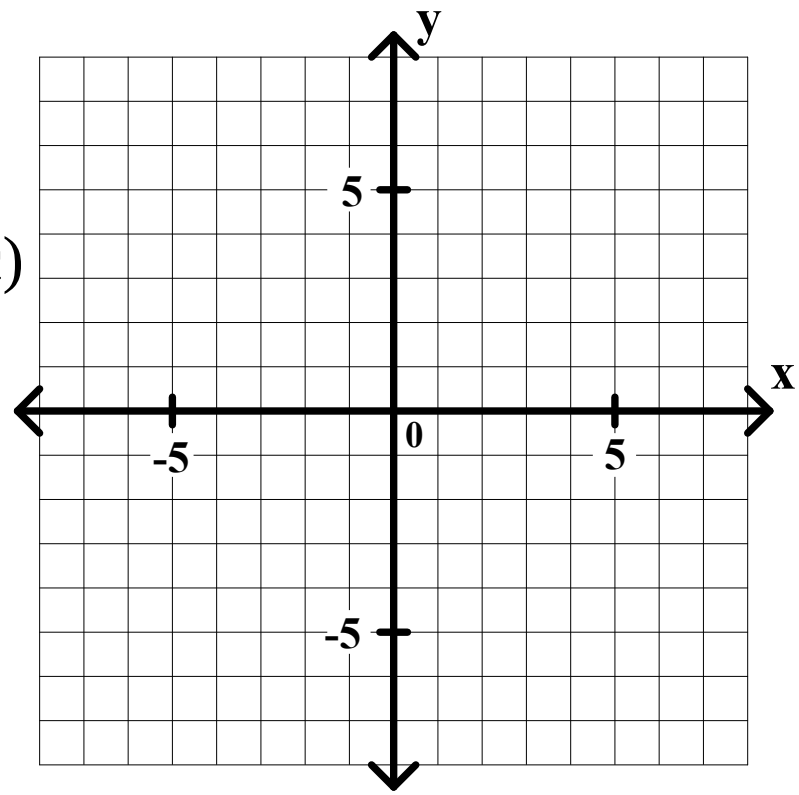

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$2x + 5y = -10$

$2(0) + 5y$

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Algebra II Class Worksheet #1 Unit 2

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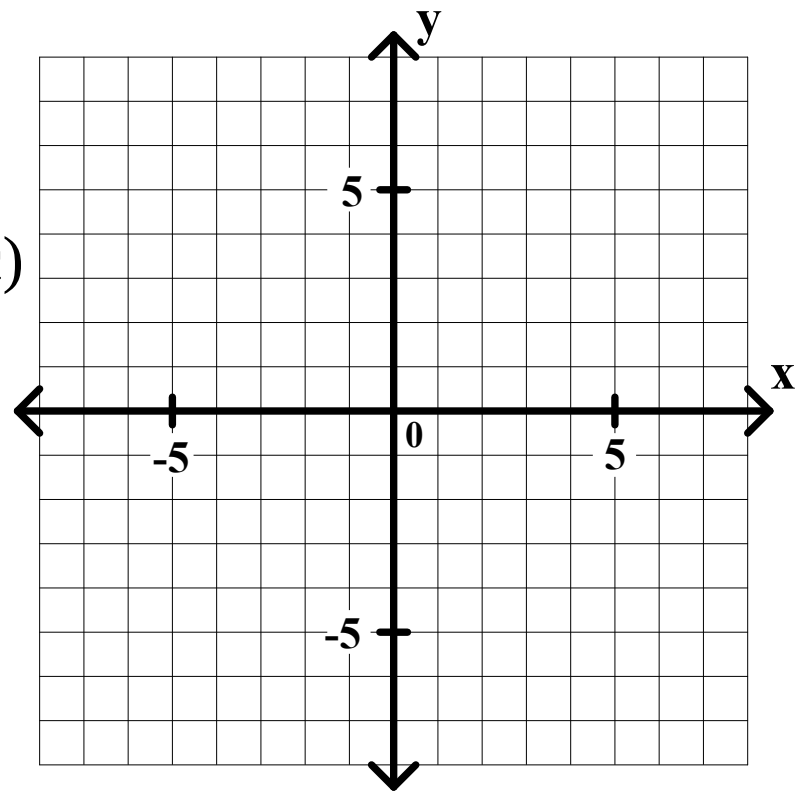

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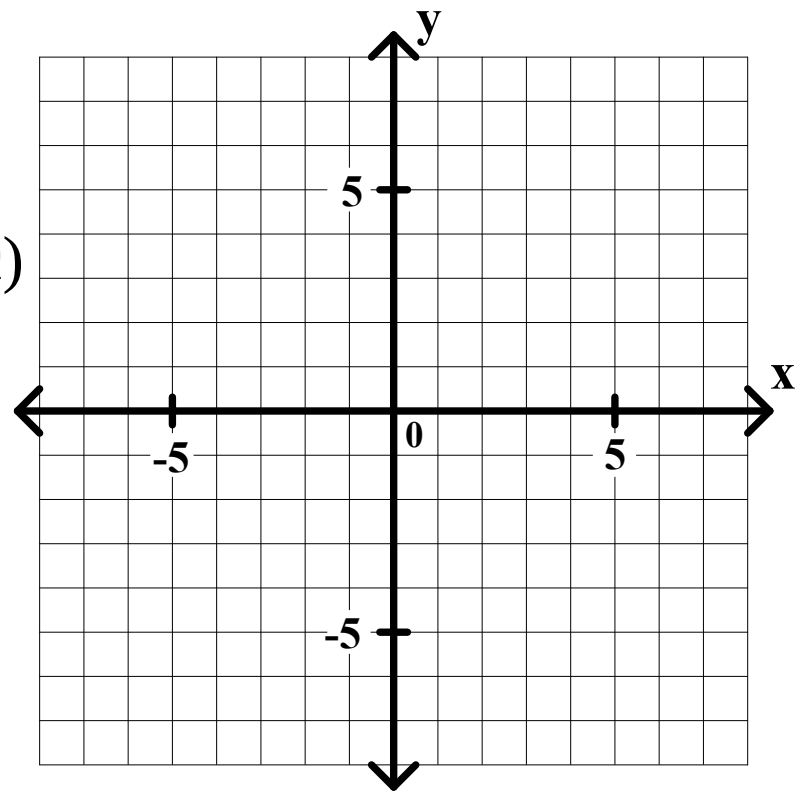

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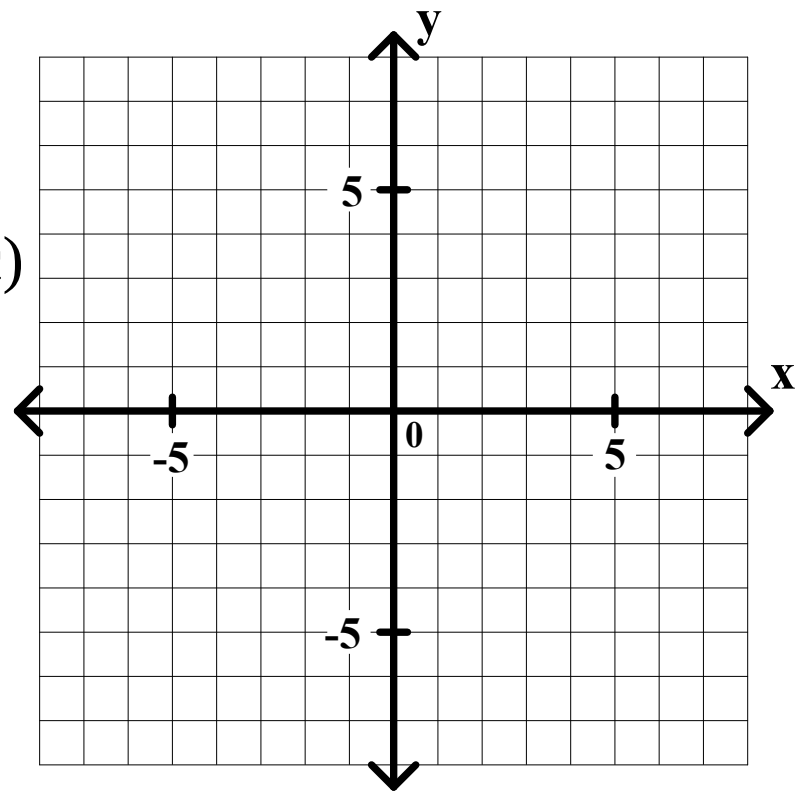

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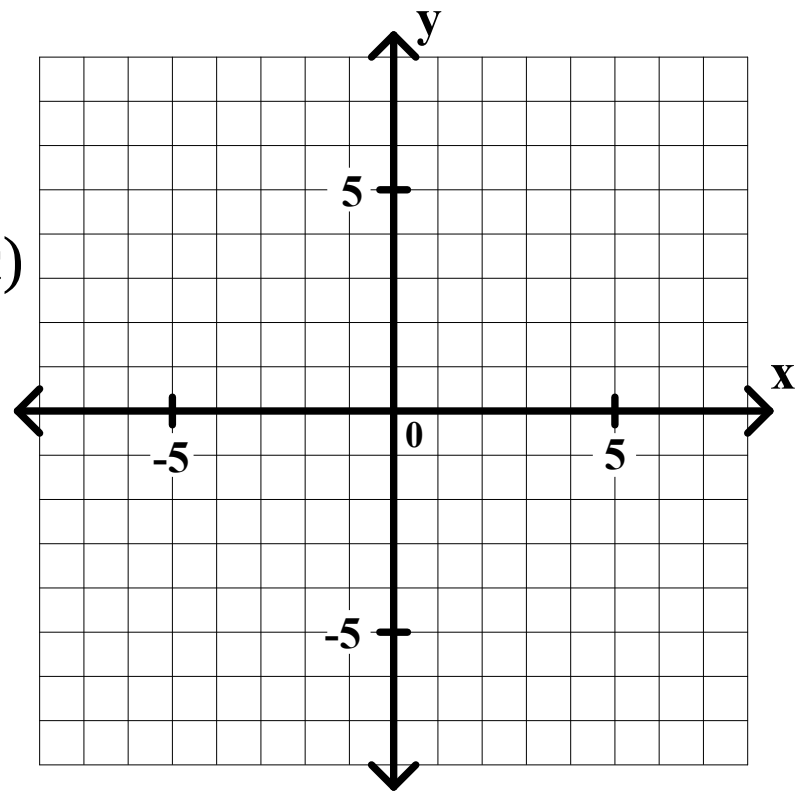

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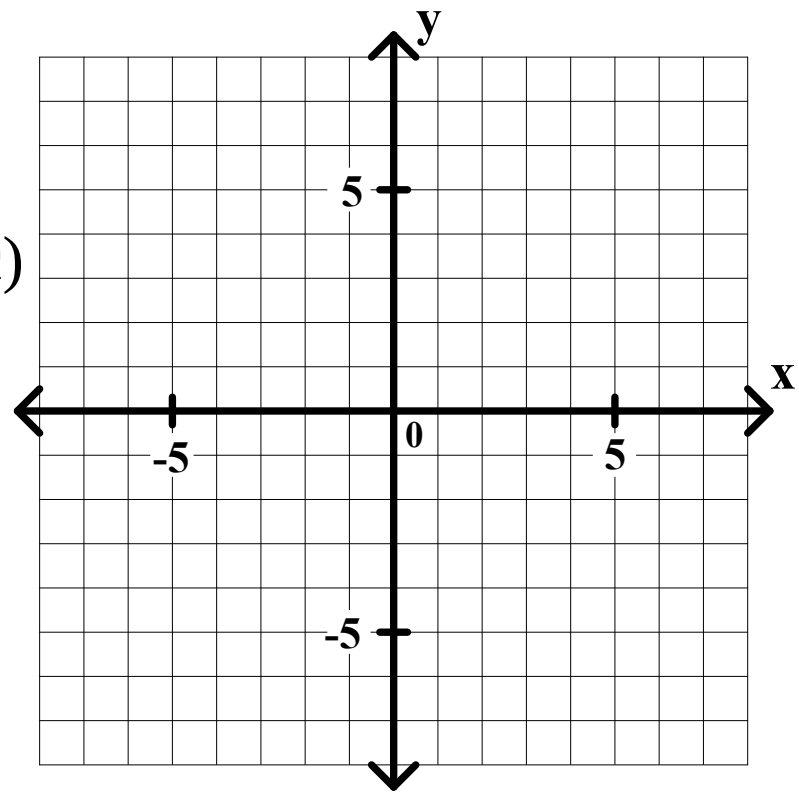

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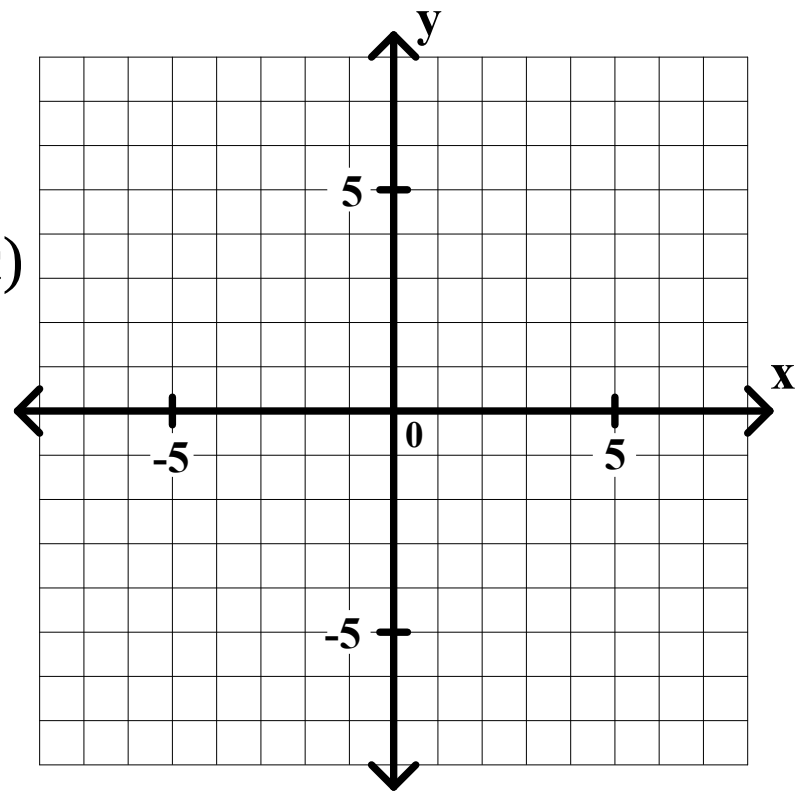

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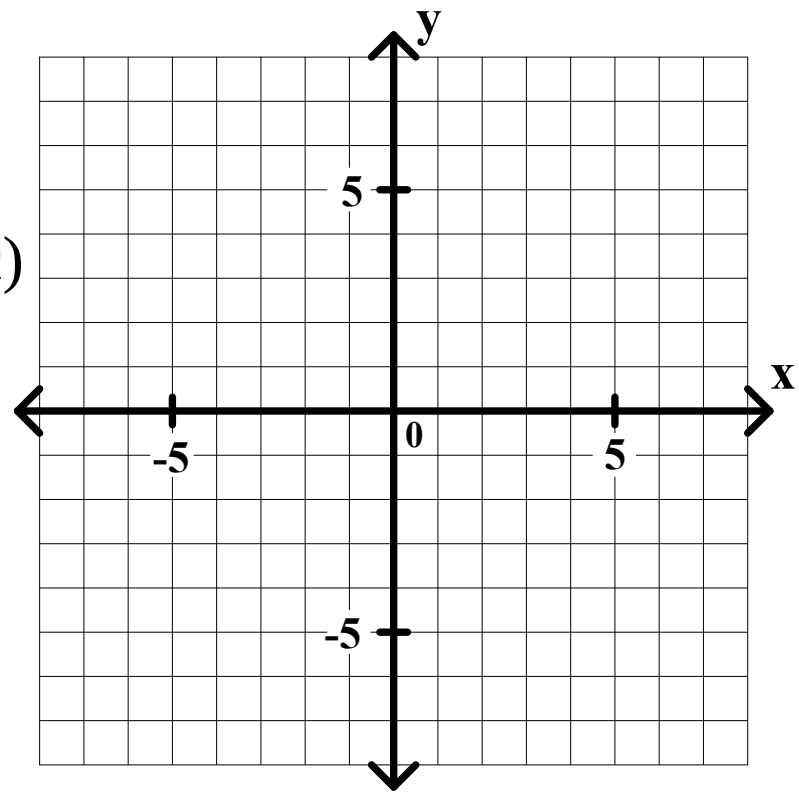

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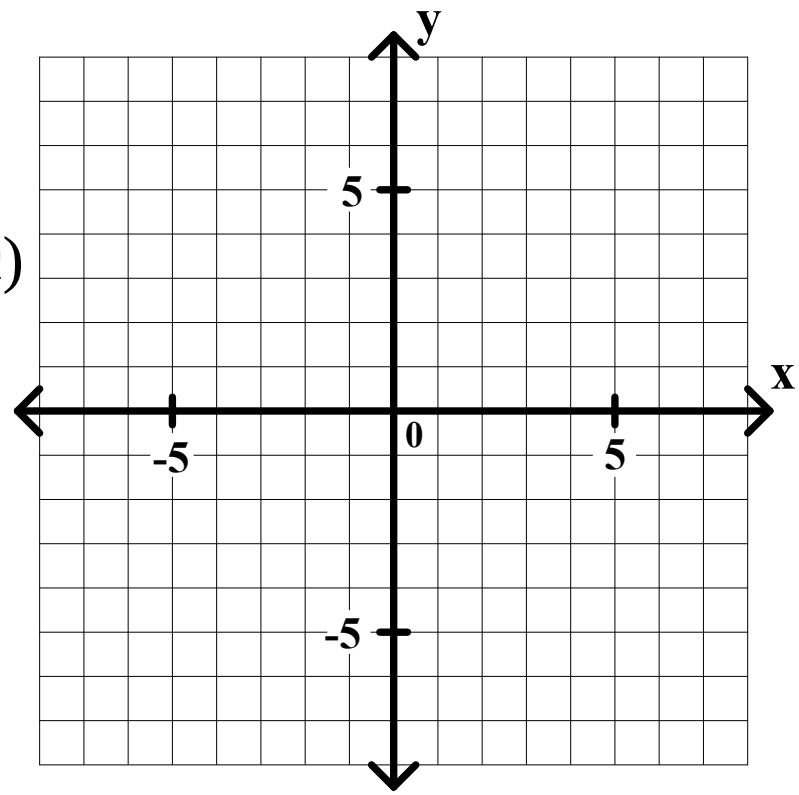

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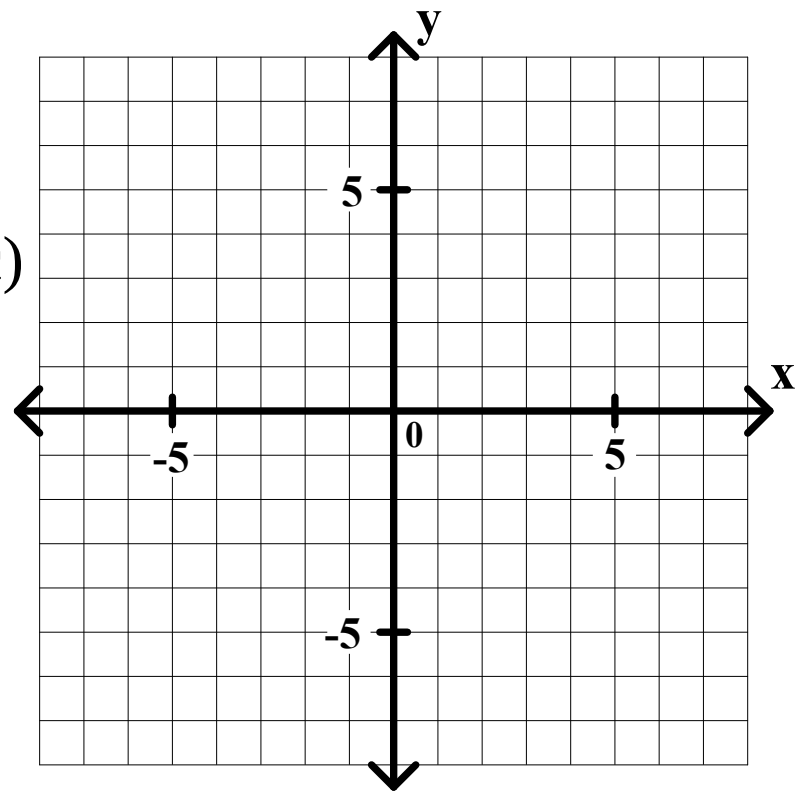

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$2x + 5y = -10$

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$5y = -10$

$y = -2$

The slope-intercept equation: $y = mx + b$.

Algebra II Class Worksheet #1 Unit 2

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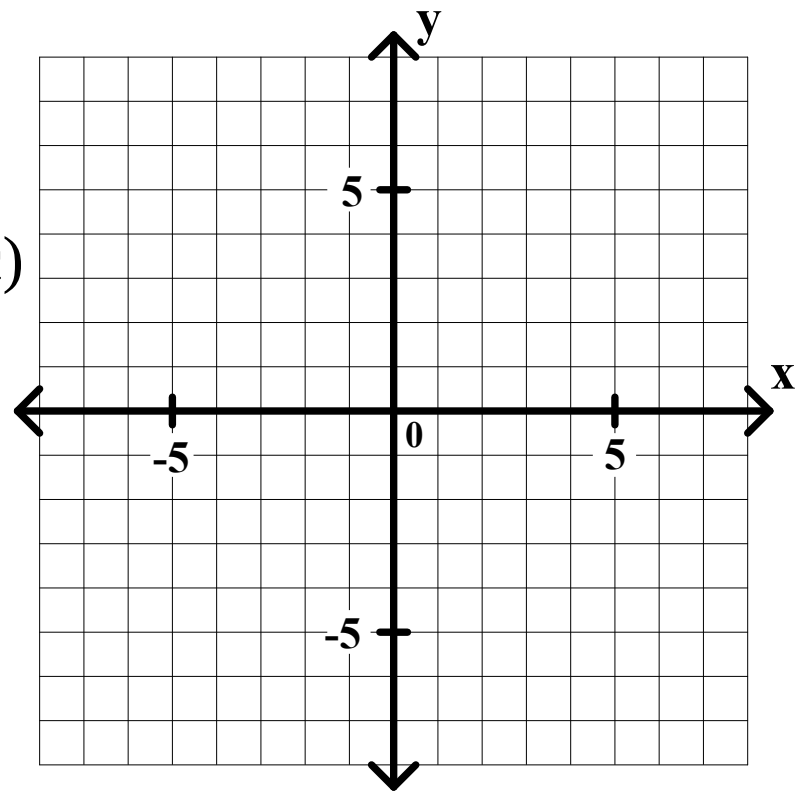
(a) x intercept: **-5** y intercept: **-2**

(b) slope-intercept equation: _____

(c)



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$2x + 5y = -10$

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$2x + 5y = -10$

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Algebra II Class Worksheet #1 Unit 2

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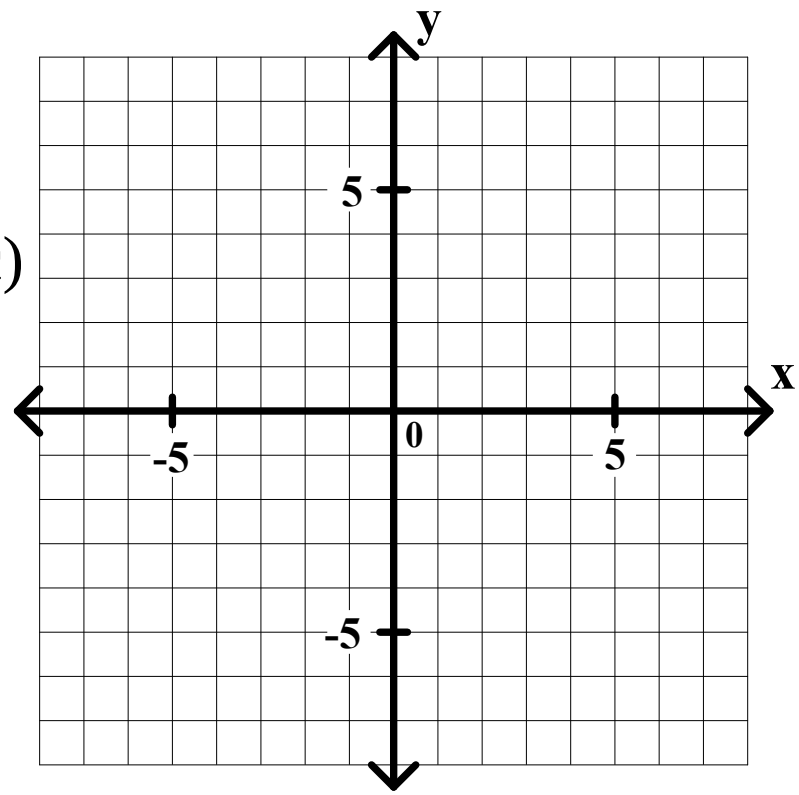

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$2x + 5y = -10$

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Solve for y.

The slope-intercept equation: $y = mx + b$.

Algebra II Class Worksheet #1 Unit 2

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(a) x intercept: **-5** y intercept: **-2**

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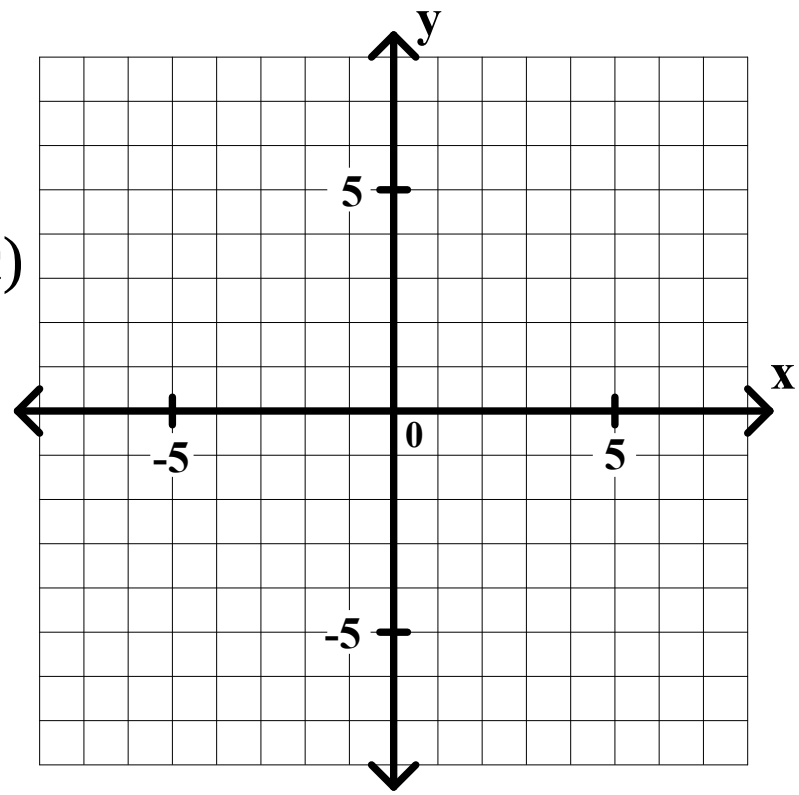

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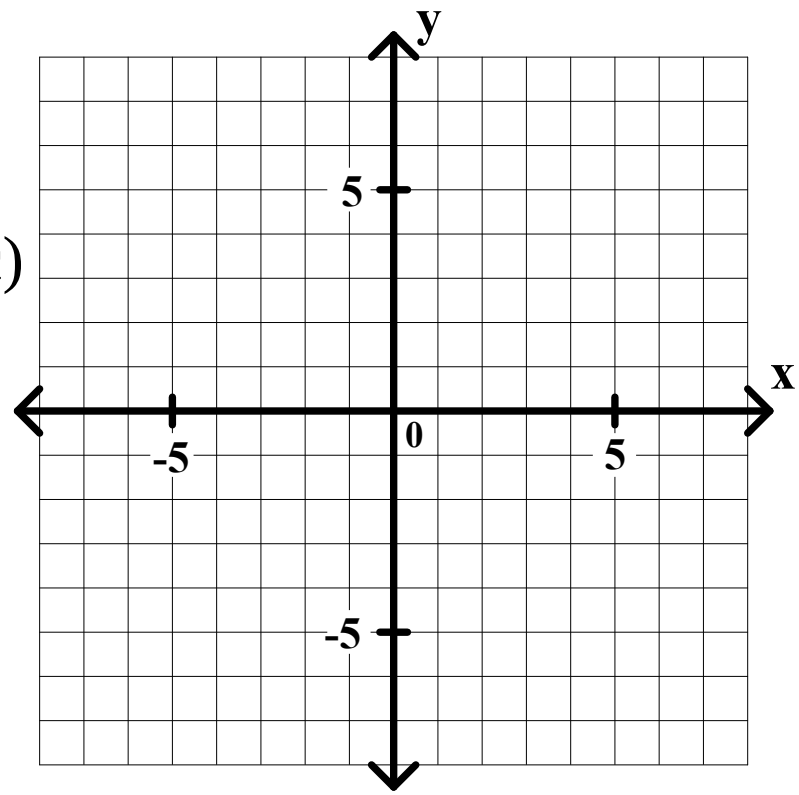

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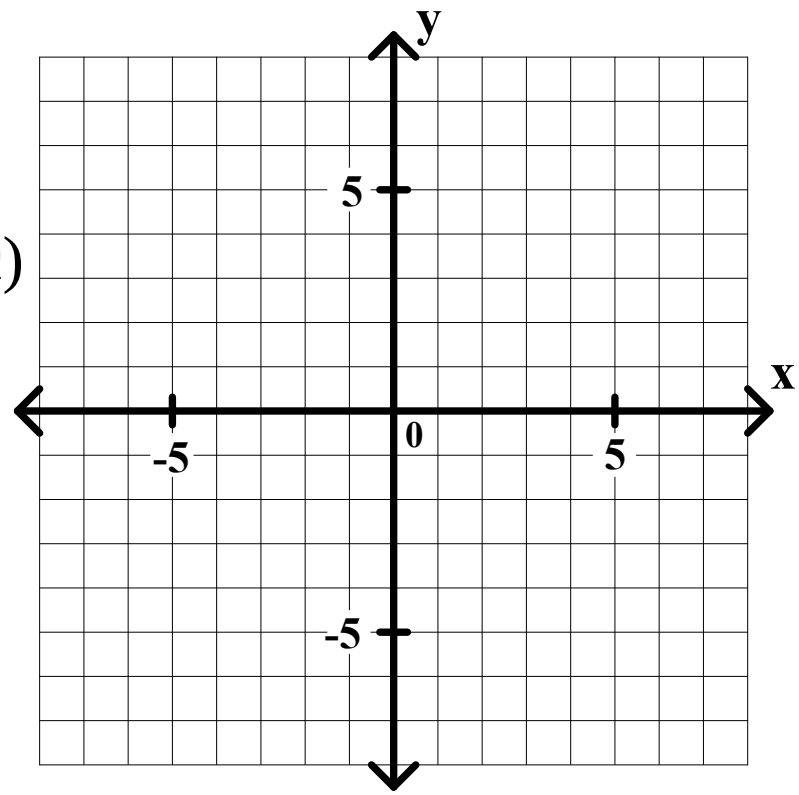

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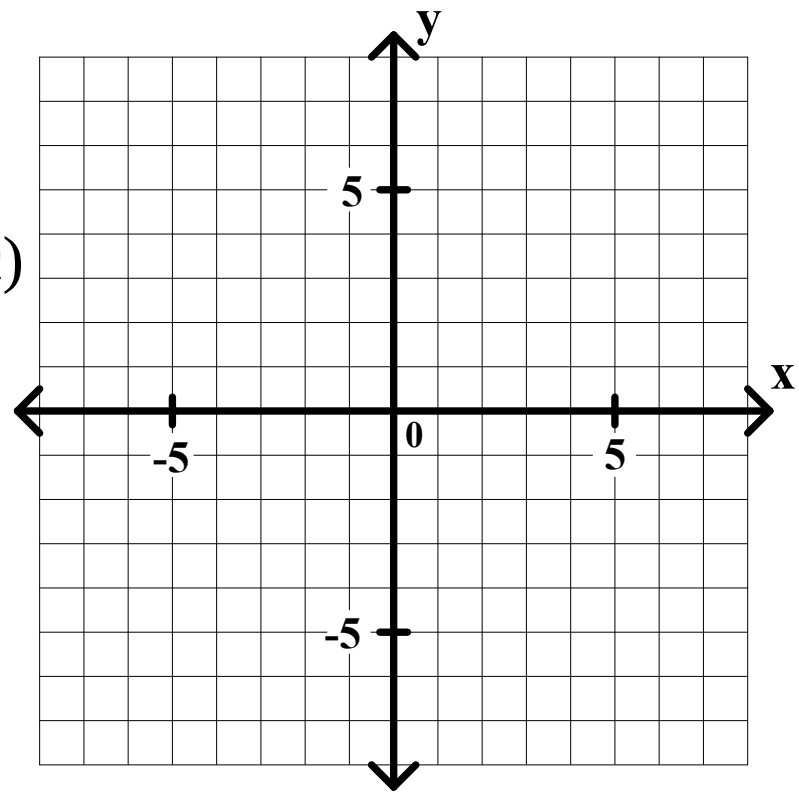

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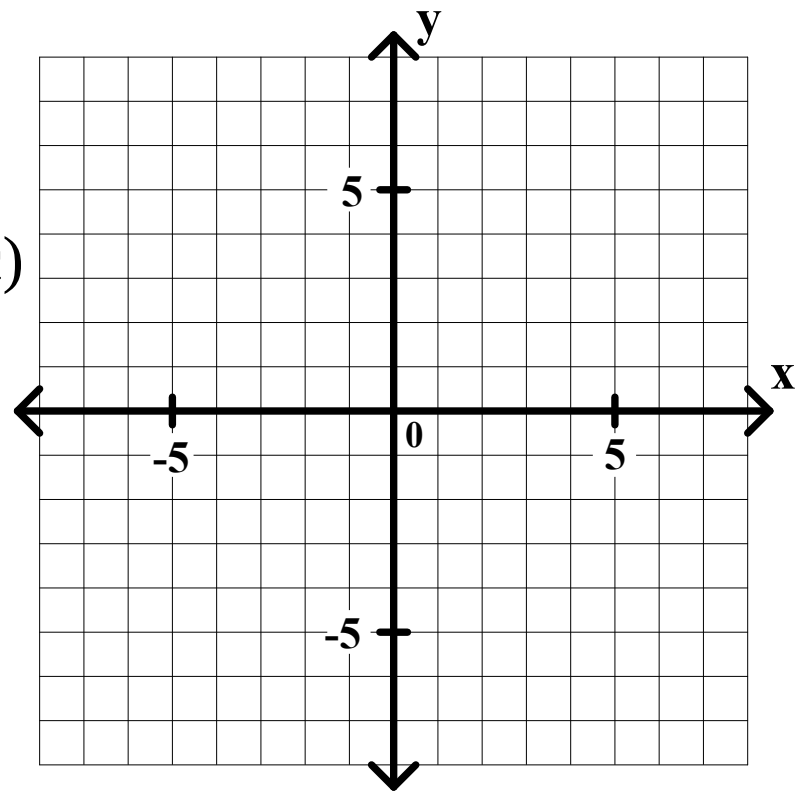

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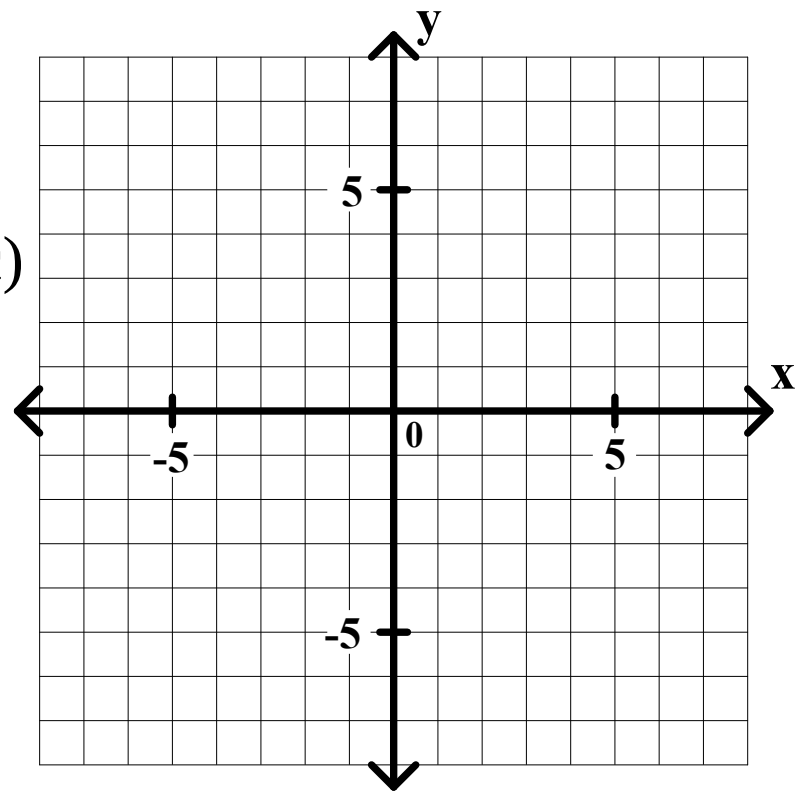

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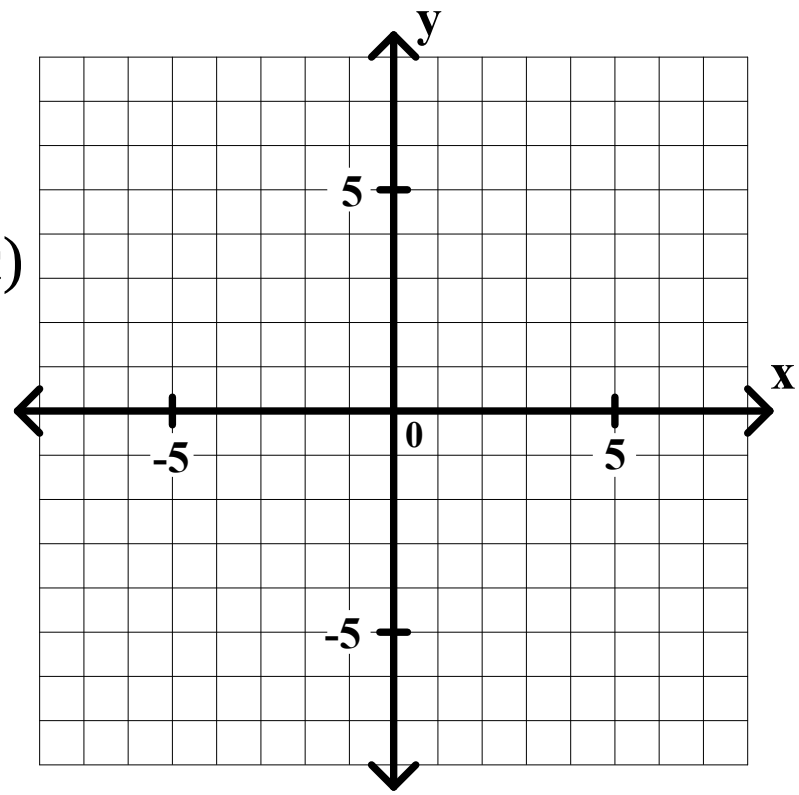

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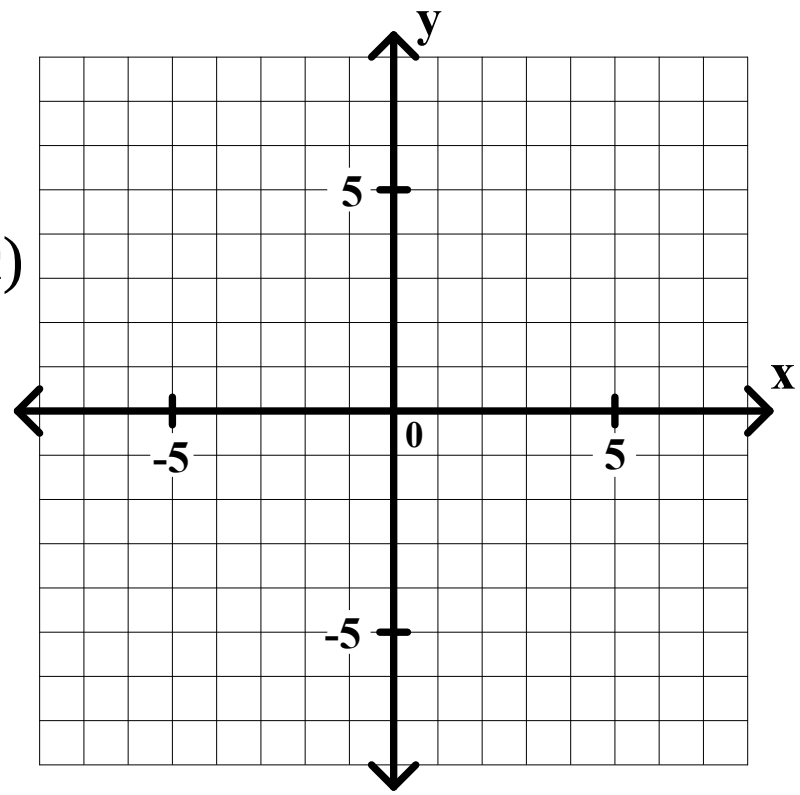

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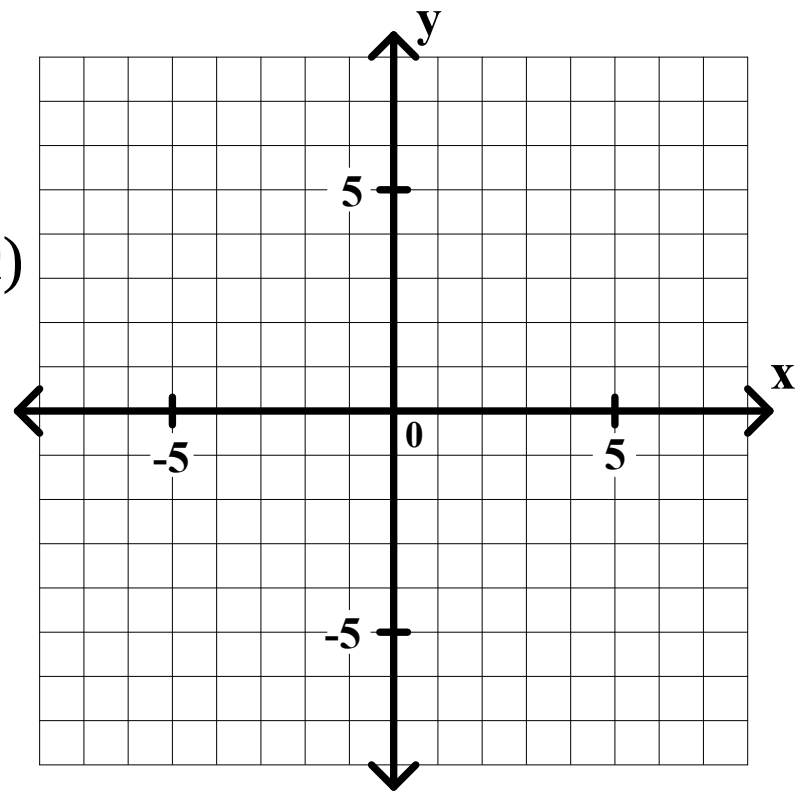

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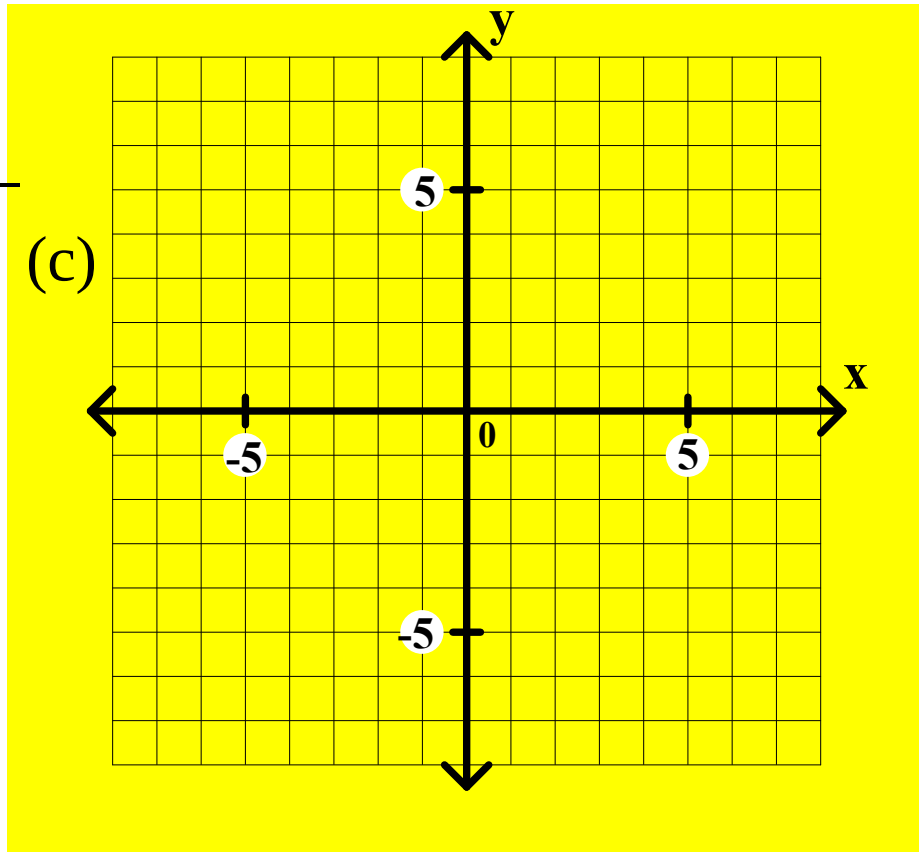

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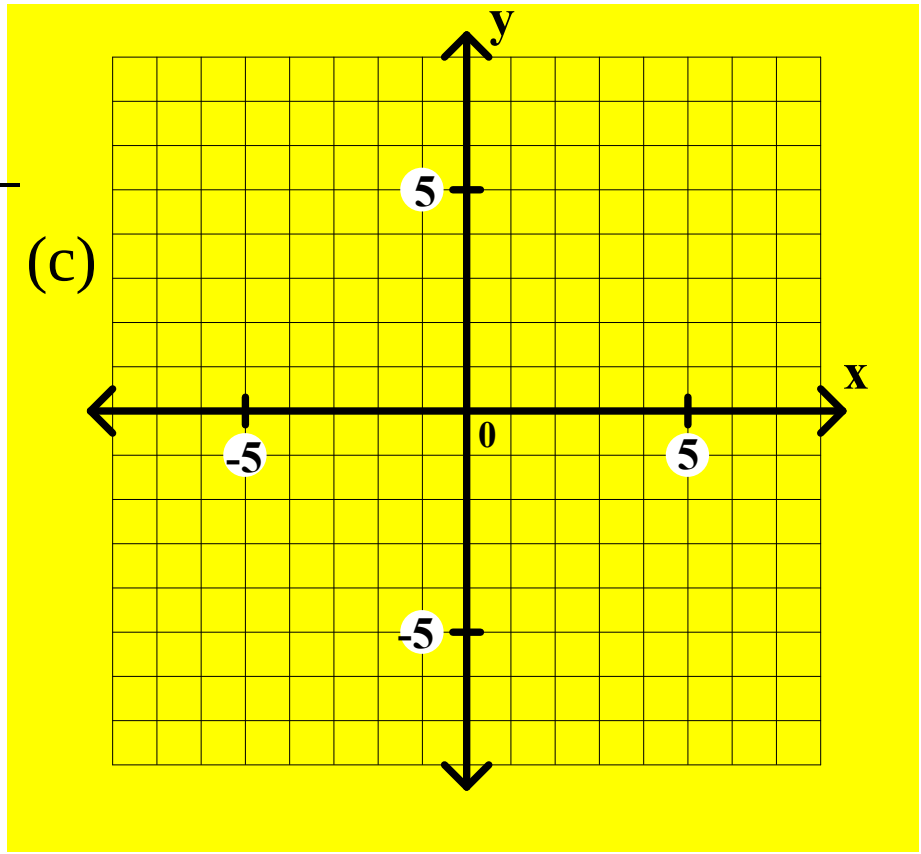

Use the y-intercept and the slope to graph the equation.

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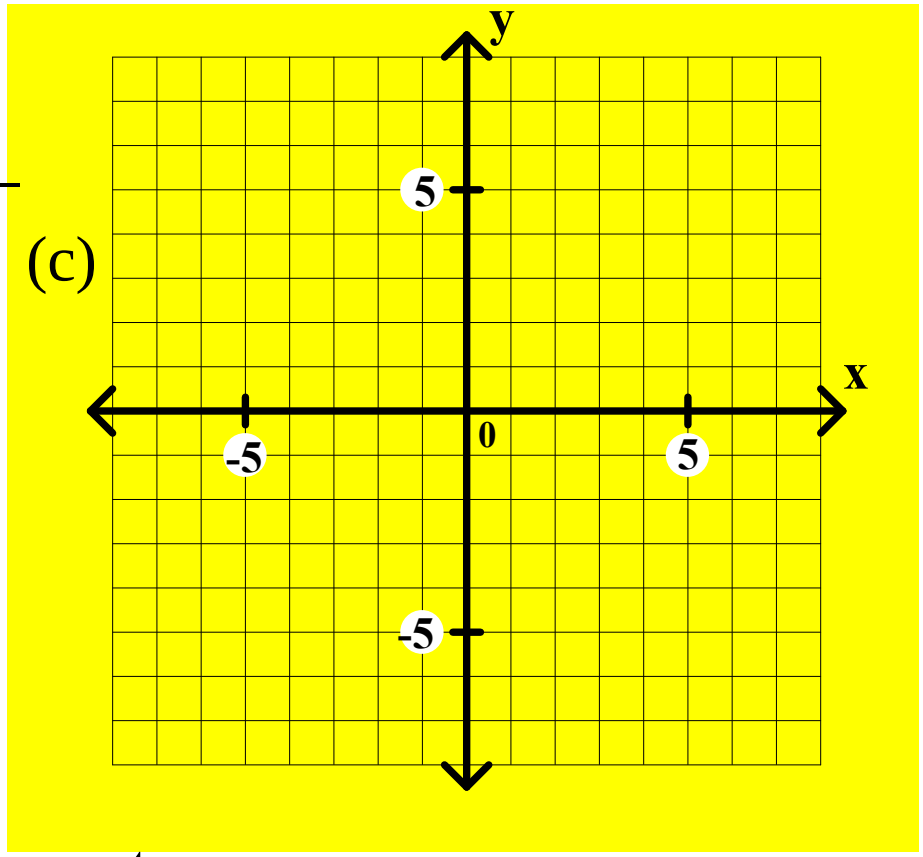

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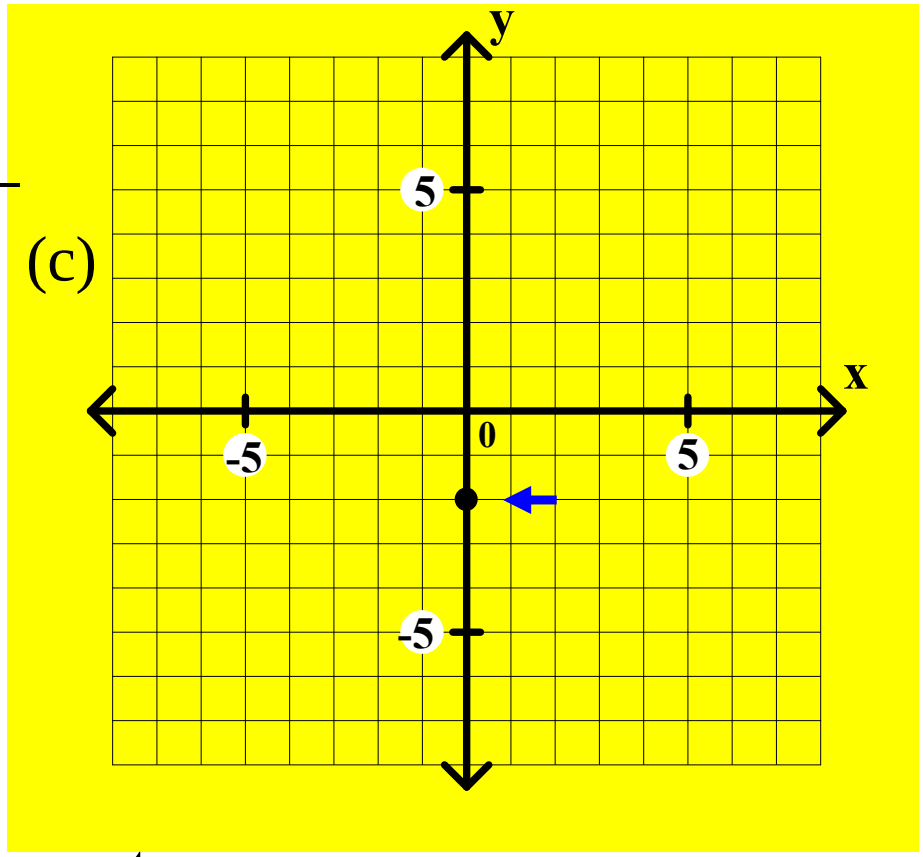

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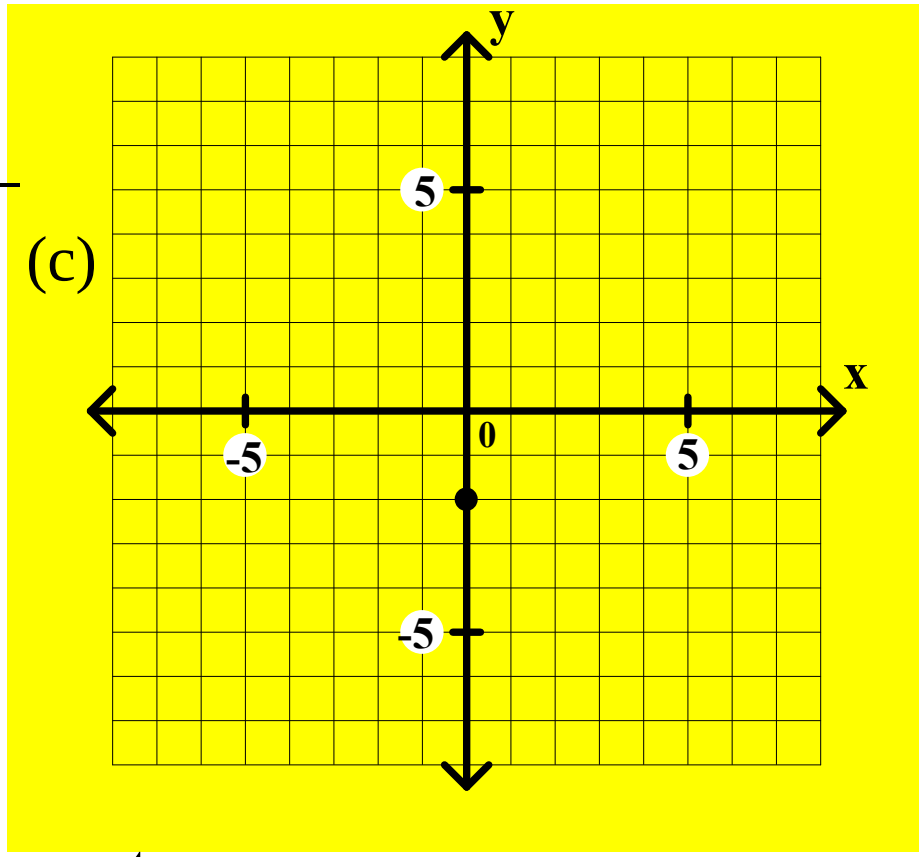

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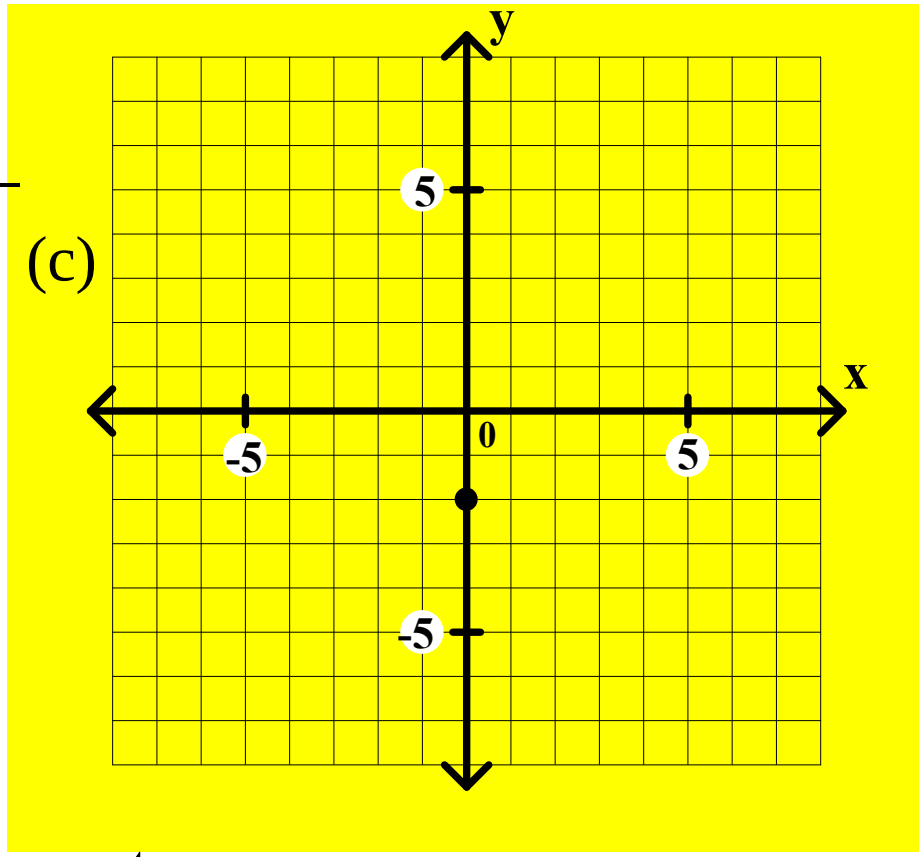

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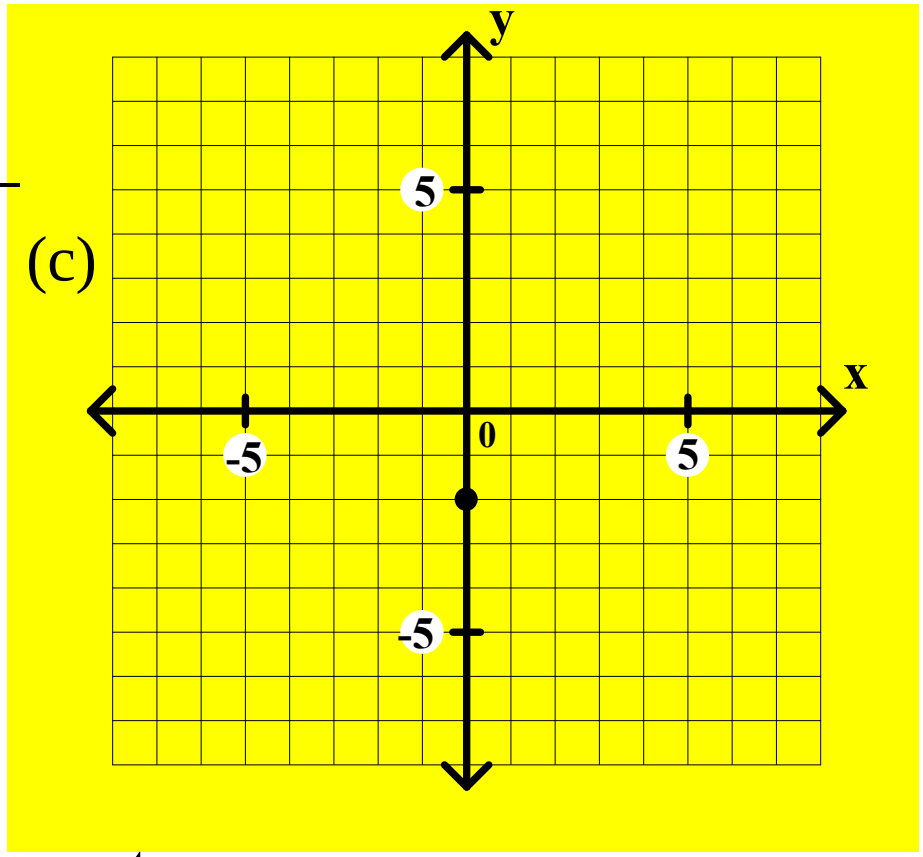

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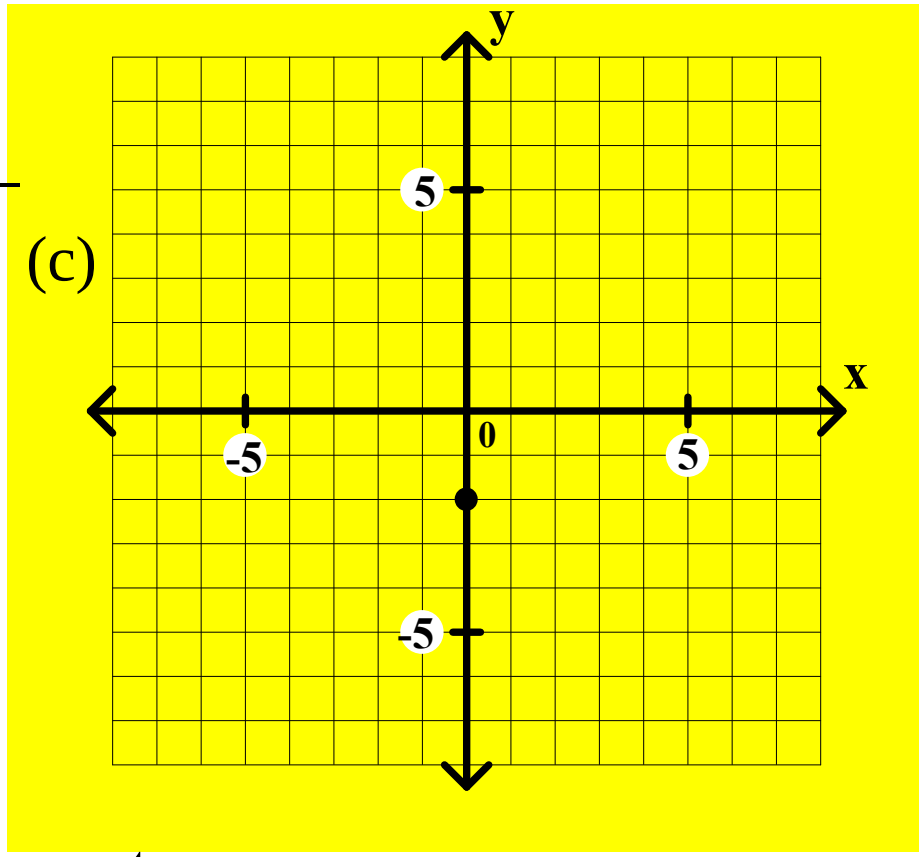

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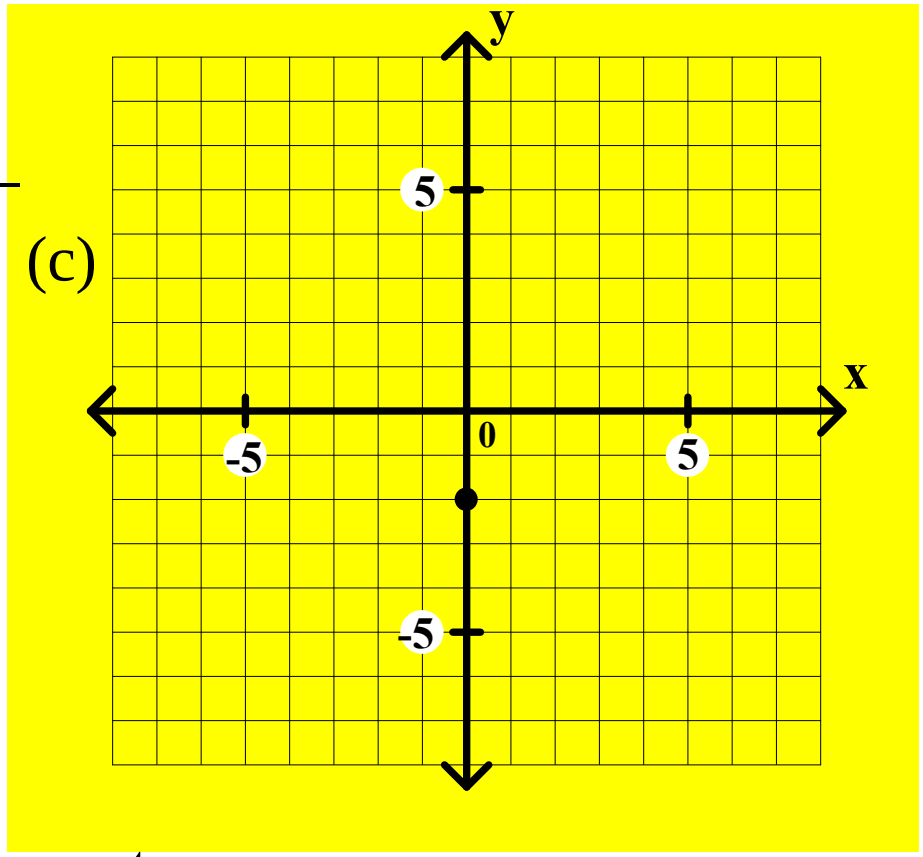

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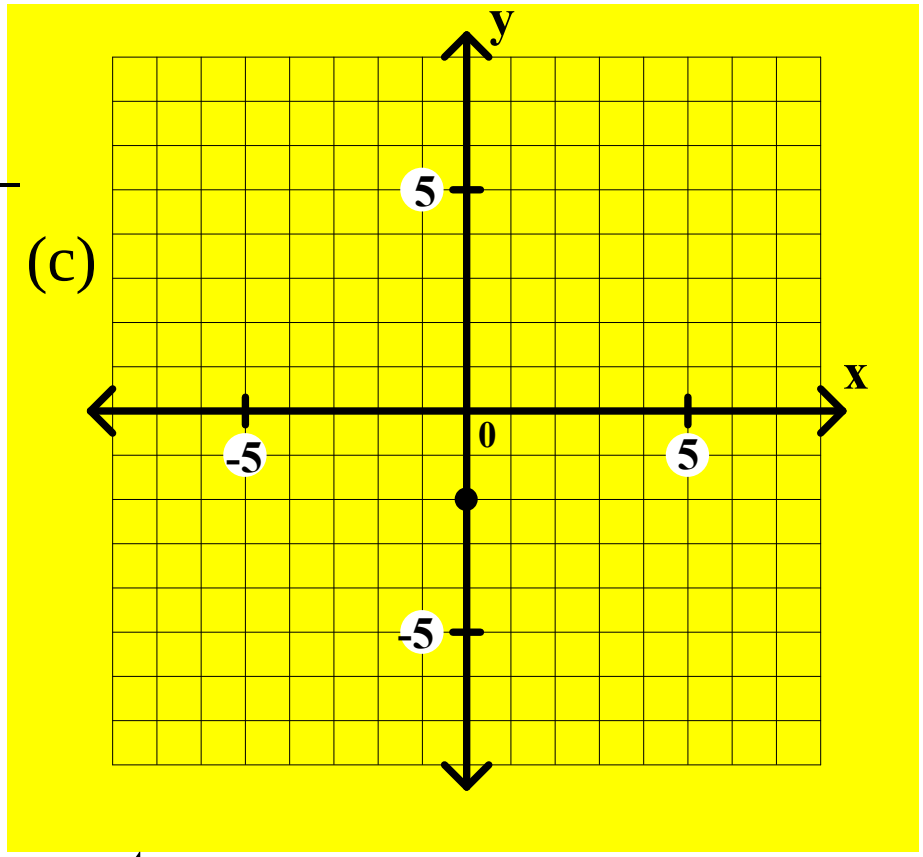

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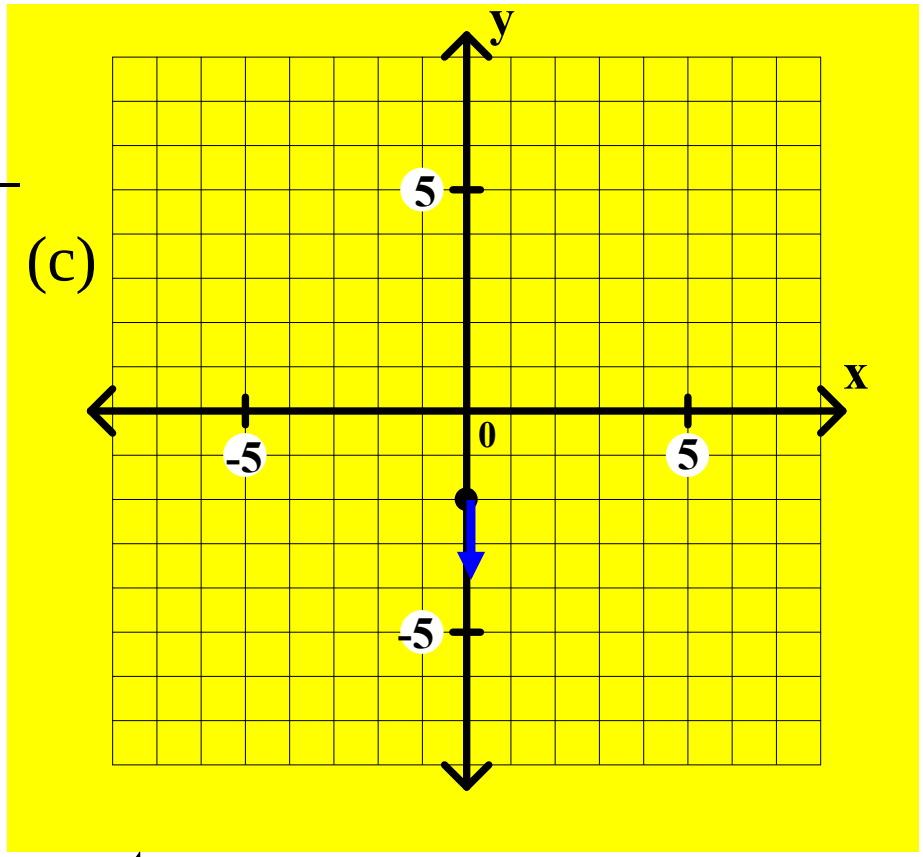

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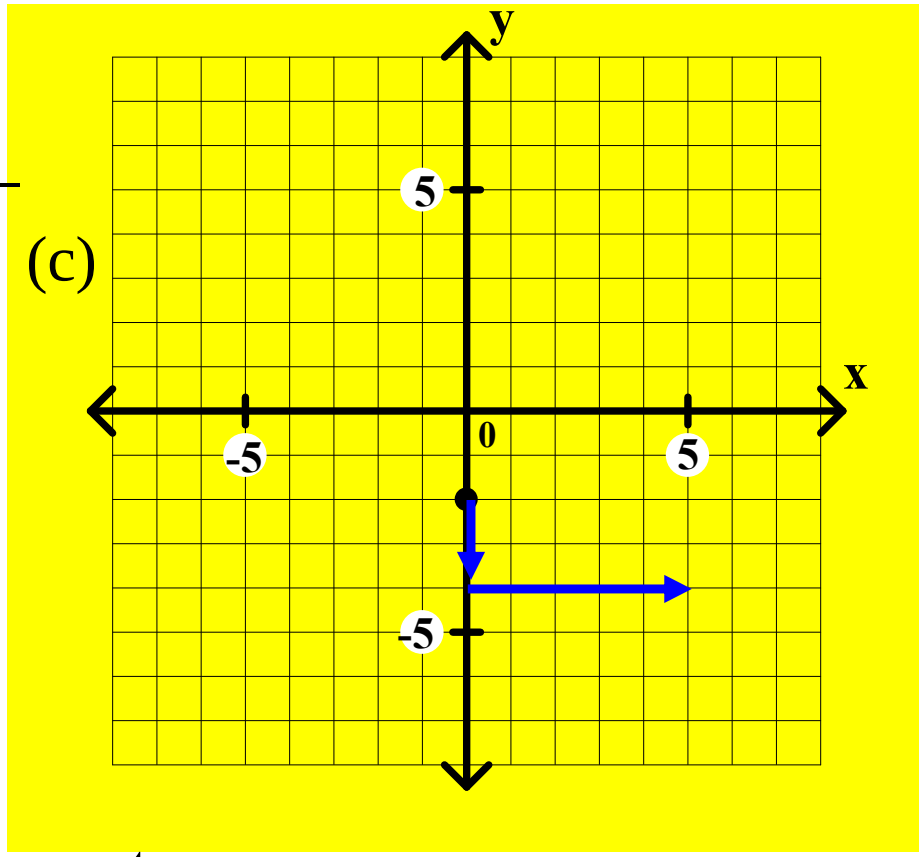

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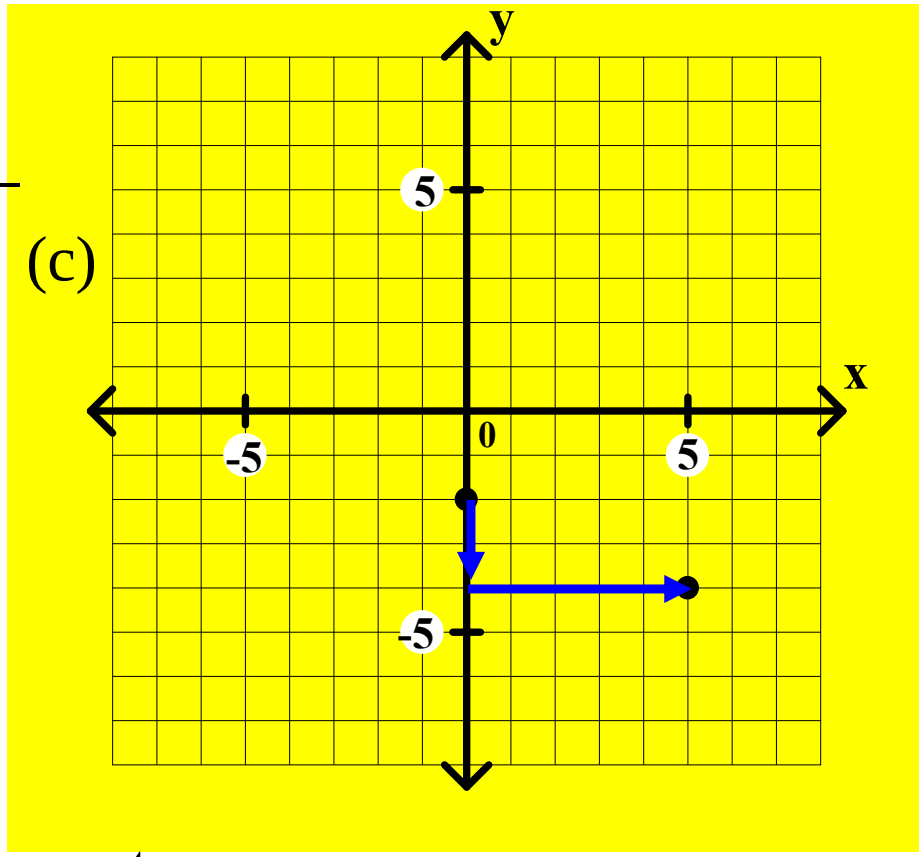

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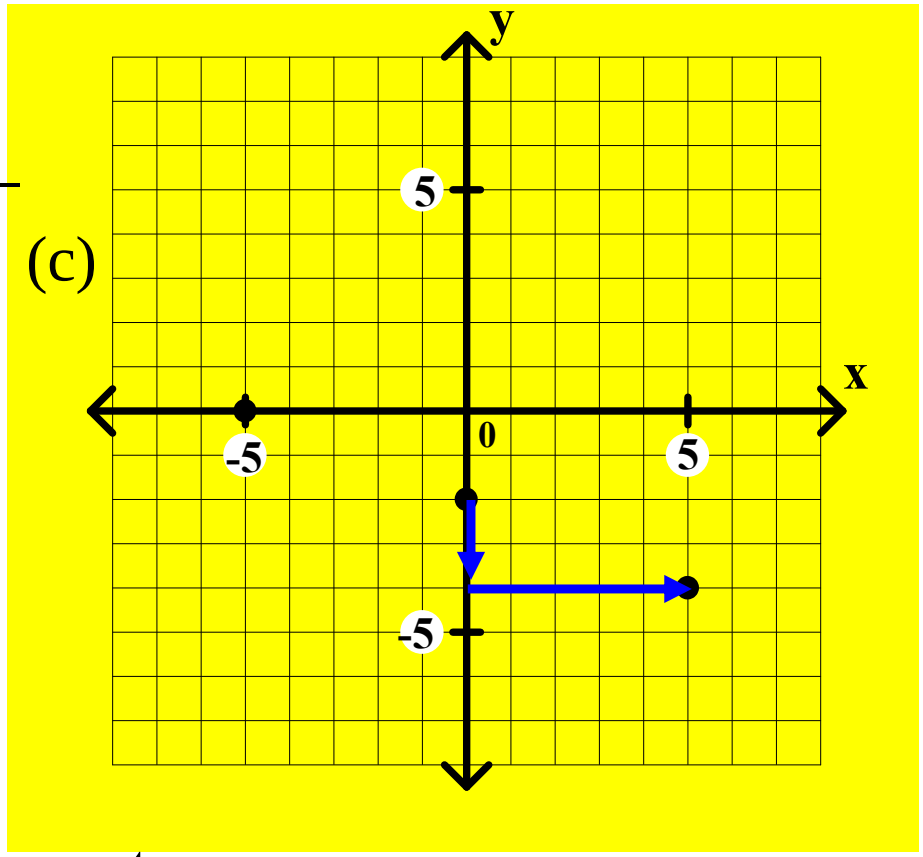


a. $2x + 5y = -10$

$2x + 5(0) = -10$

$2x = -10$

$x = -5$

$2x + 5y = -10$

$2(0) + 5y = -10$

$5y = -10$

$y = -2$

$2x + 5y = -10$

$5y = -2x - 10$

$y = \frac{-2}{5}x - 2$

slope y-intercept

$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{-2}{5}$$

Use the y-intercept and the slope to graph the equation.

Algebra II Class Worksheet #1 Unit 2

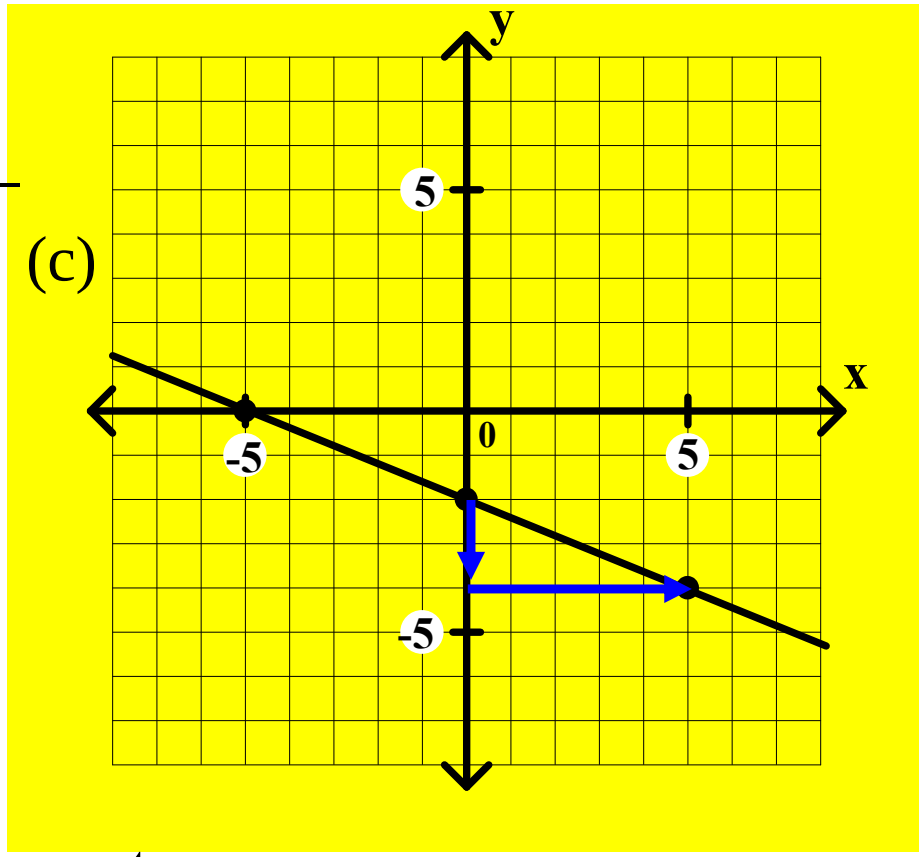
2. $2x + 5y = -10$

(a) x intercept: **-5** y intercept: **-2**

(b) slope-intercept equation:

$$y = \frac{-2}{5}x - 2$$

(c)



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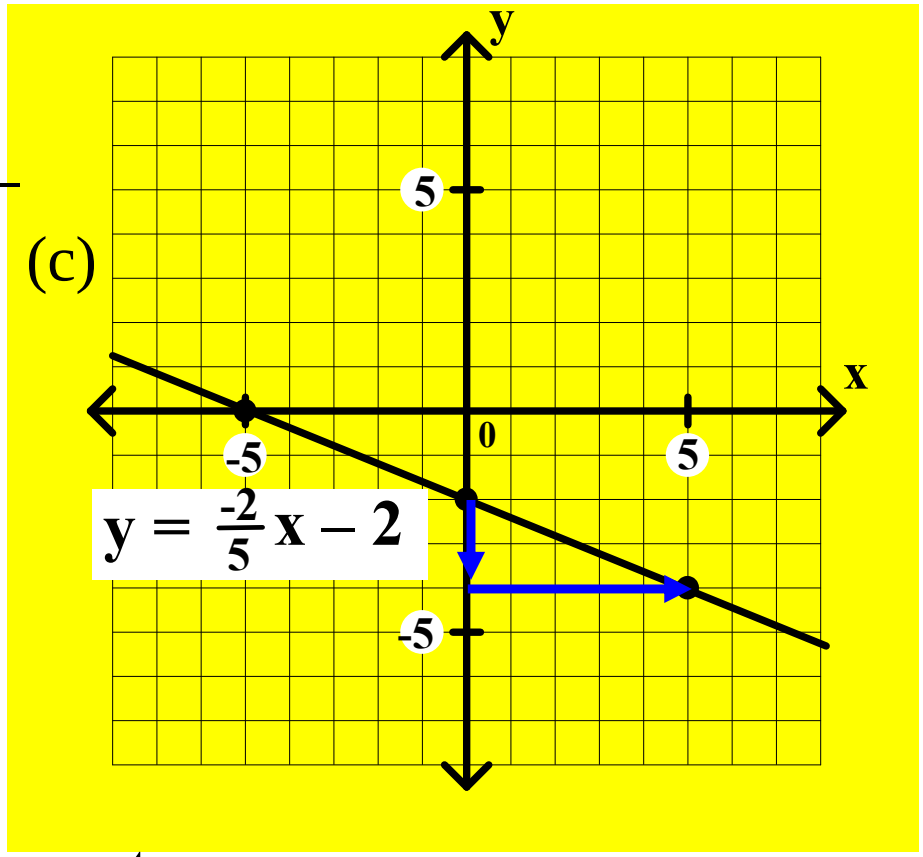

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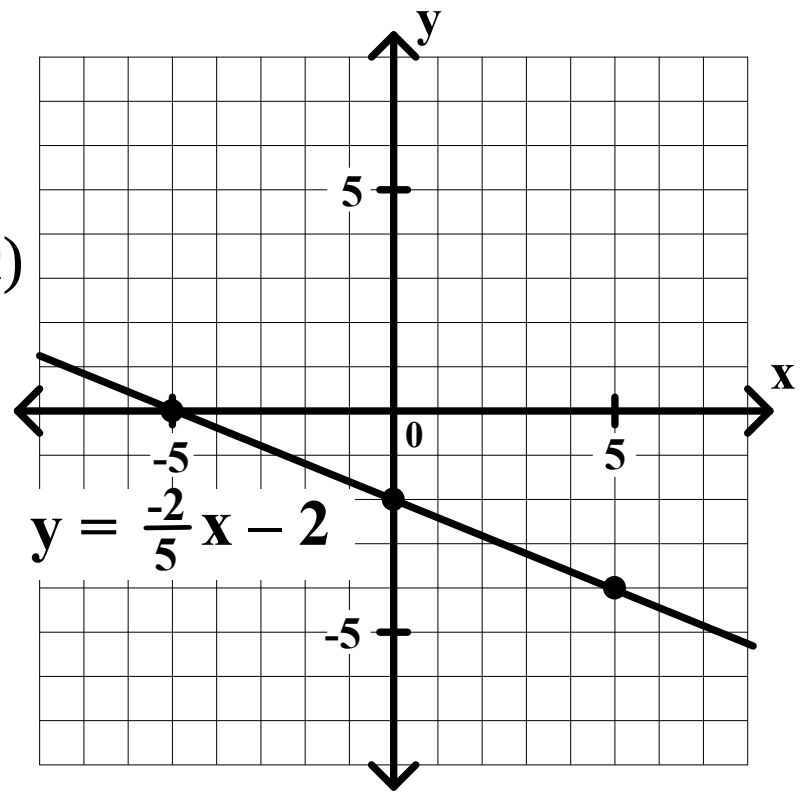

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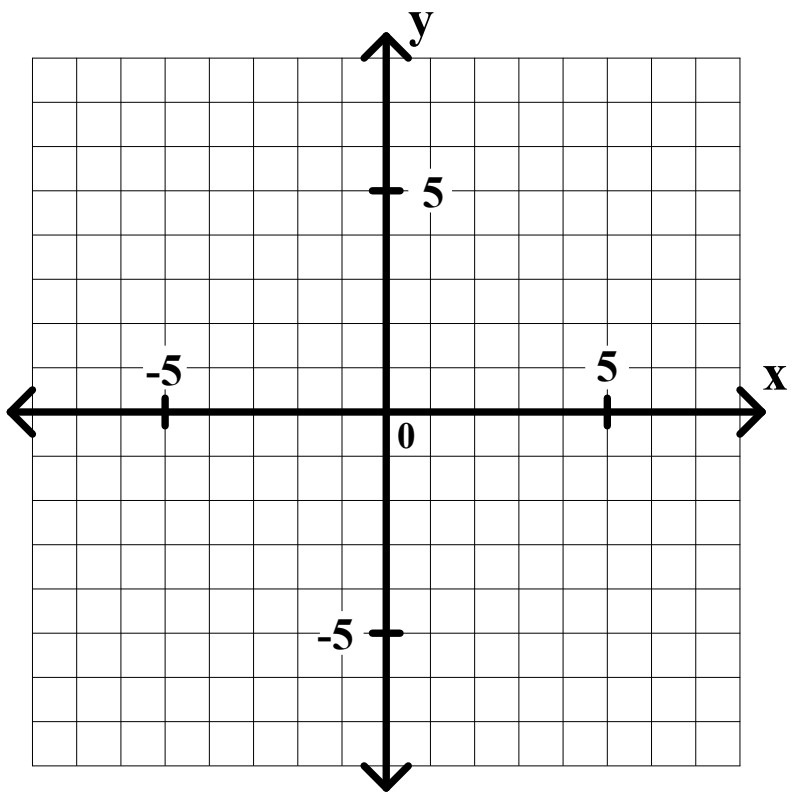
Algebra II Class Worksheet #1 Unit 2

Graph the equations.

3. 3x + 4y = 12

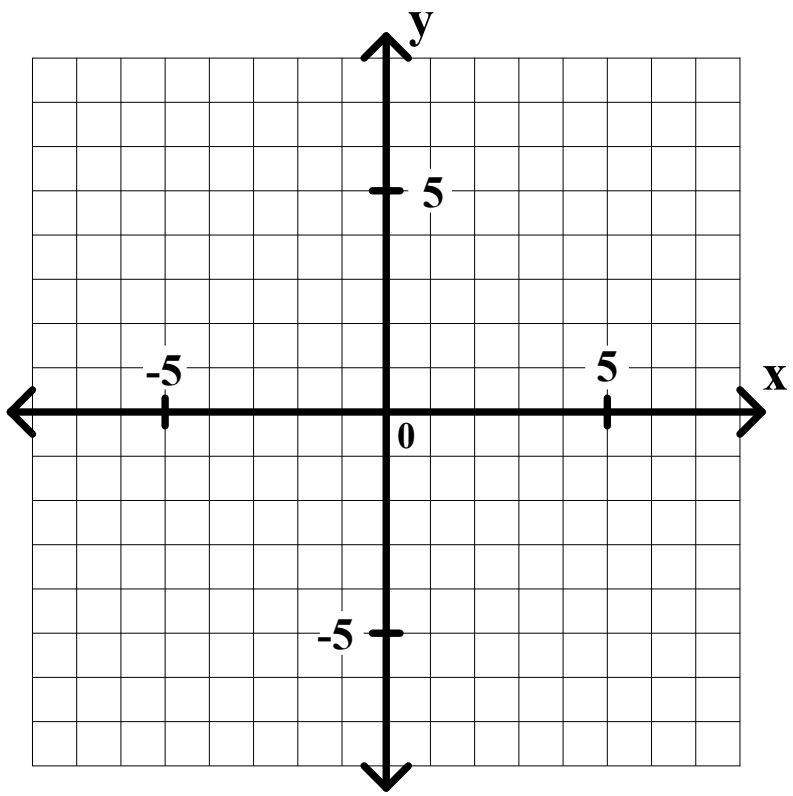


4. 6x – 3y = -12

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

3. $3x + 4y = 12$



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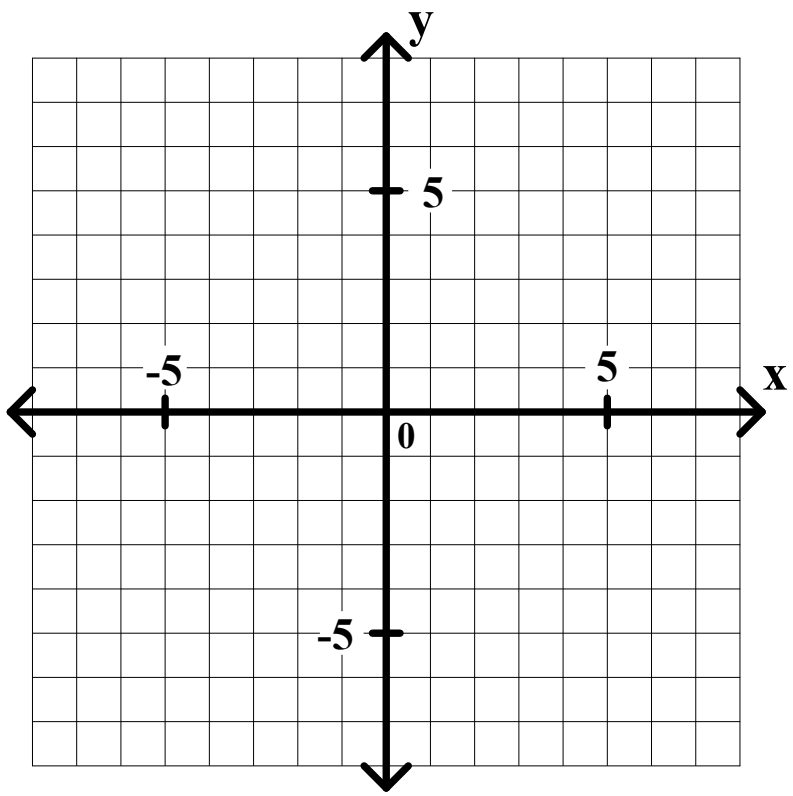

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Solve for y.

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

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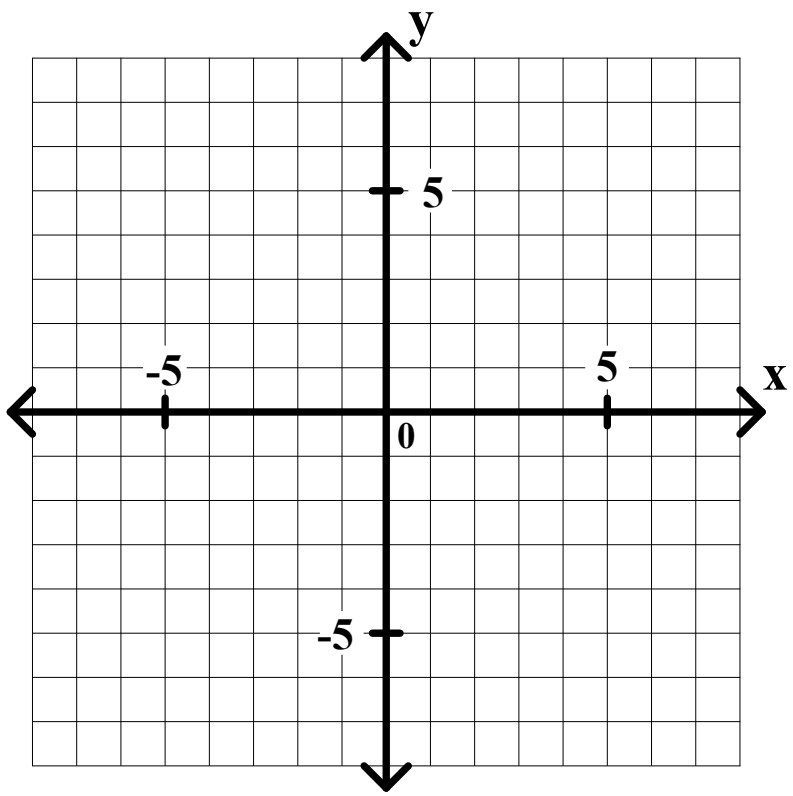

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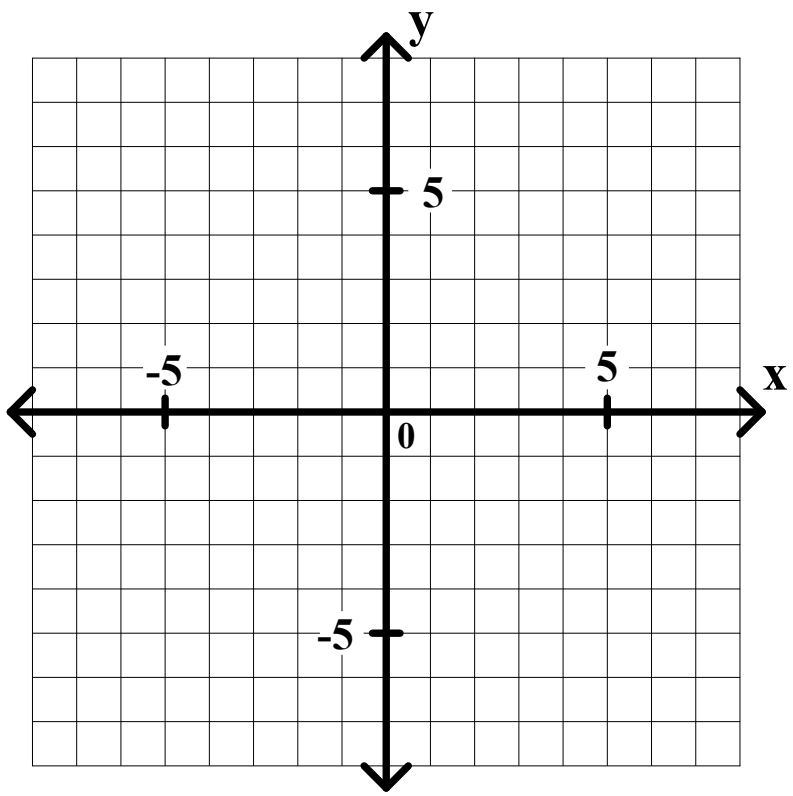

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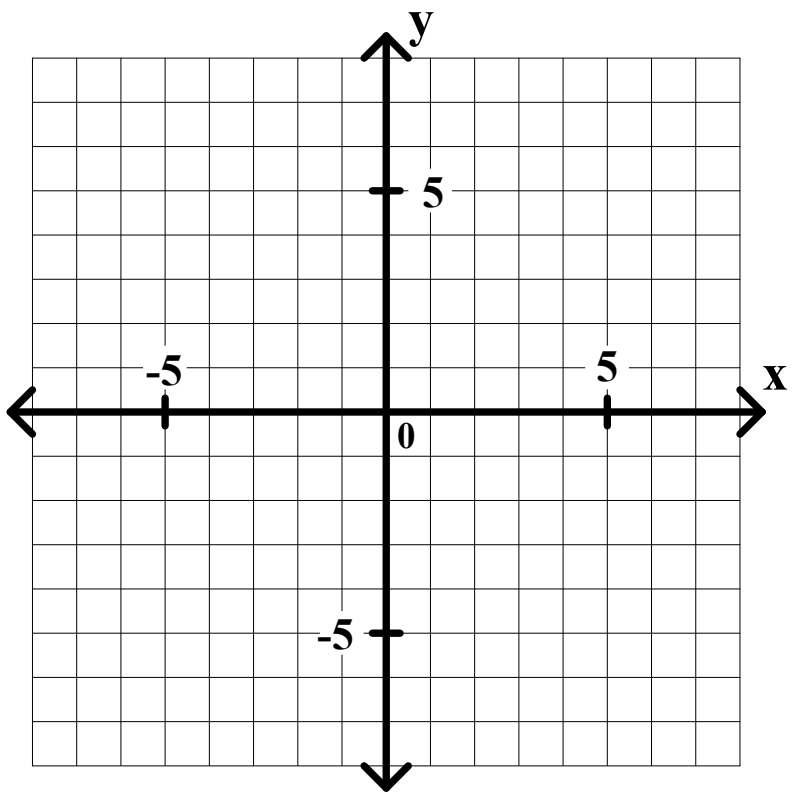

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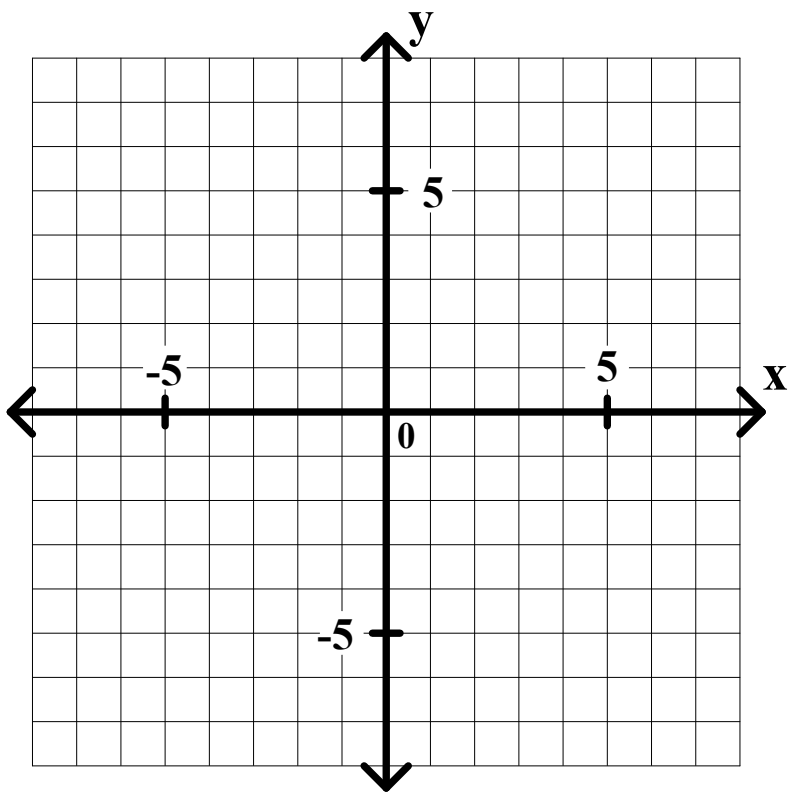

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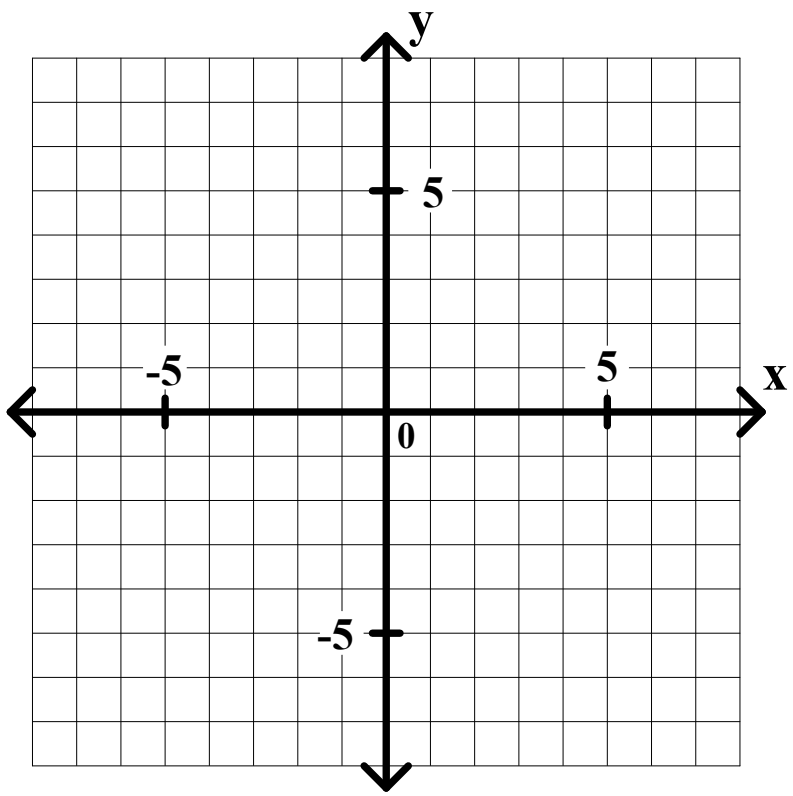

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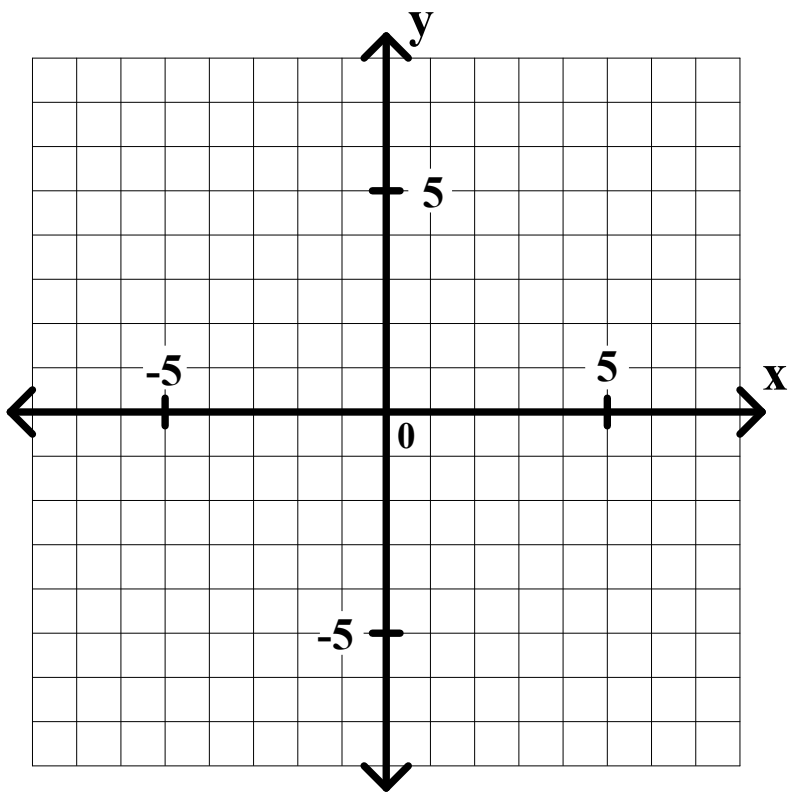

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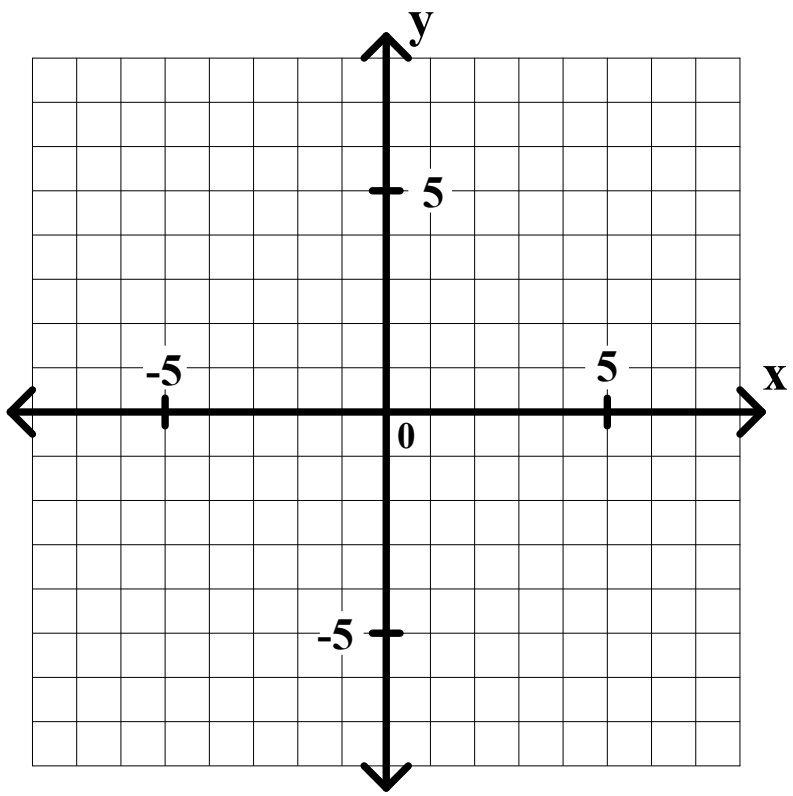

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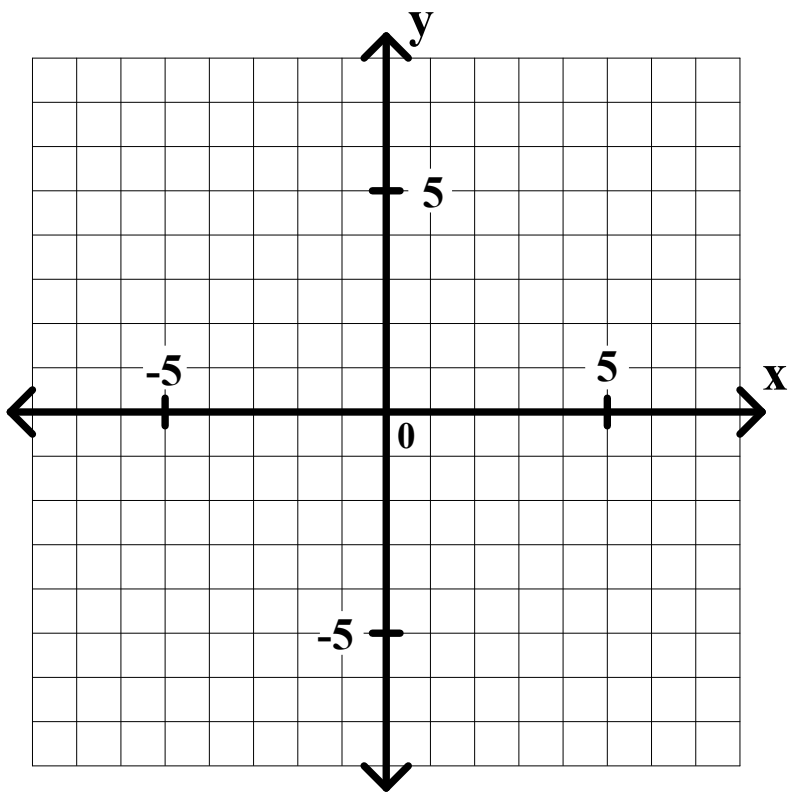

Use the y-intercept and the slope to graph the equation.

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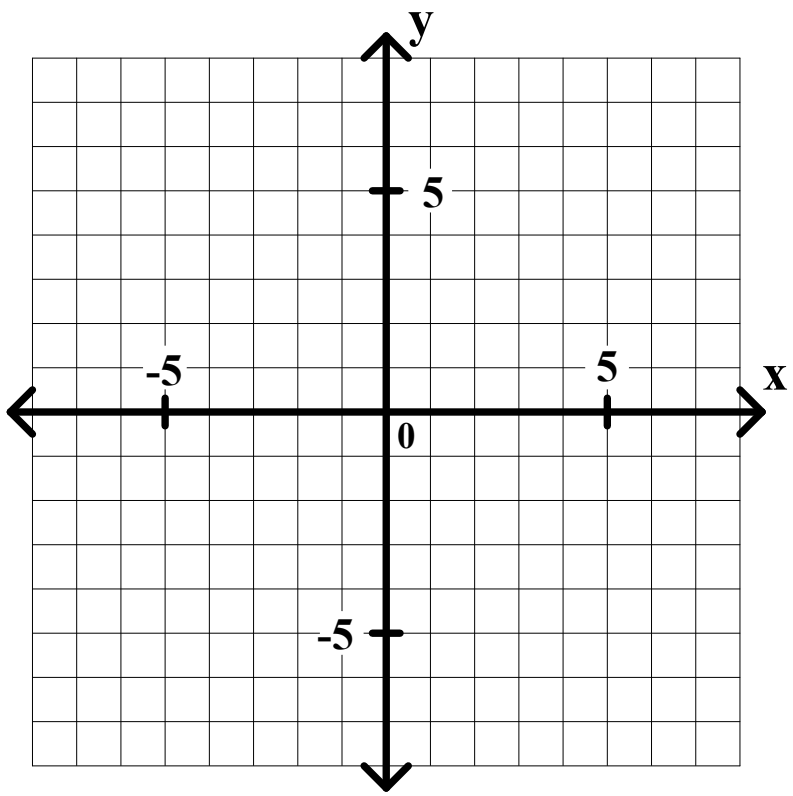

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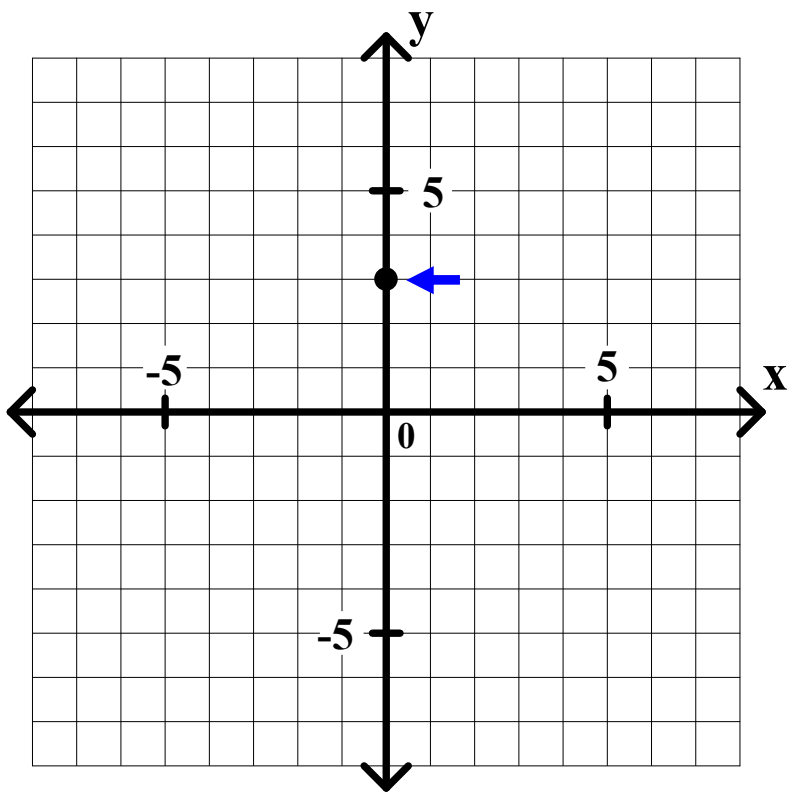

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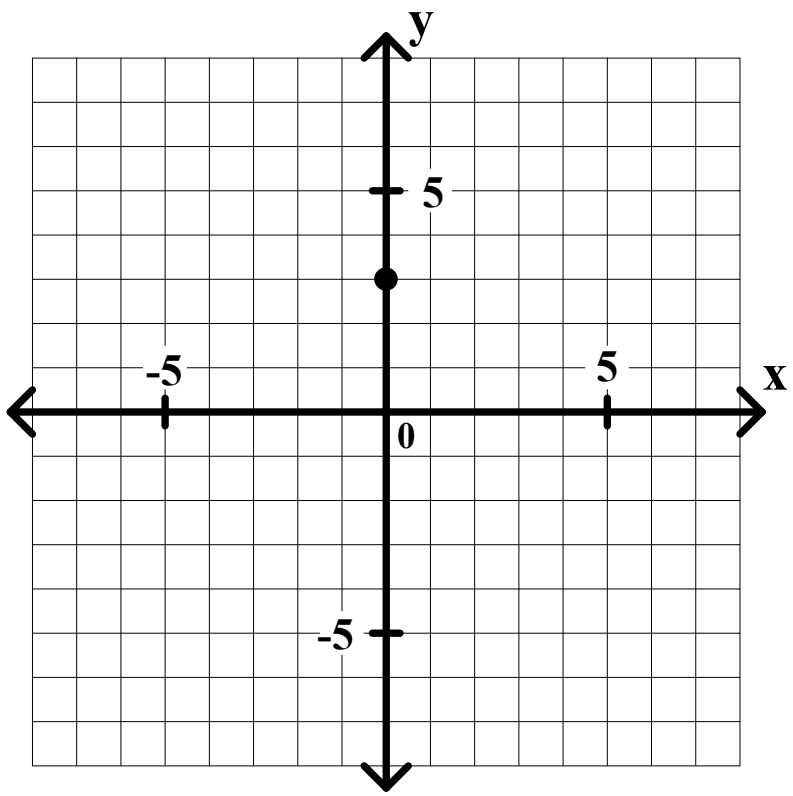

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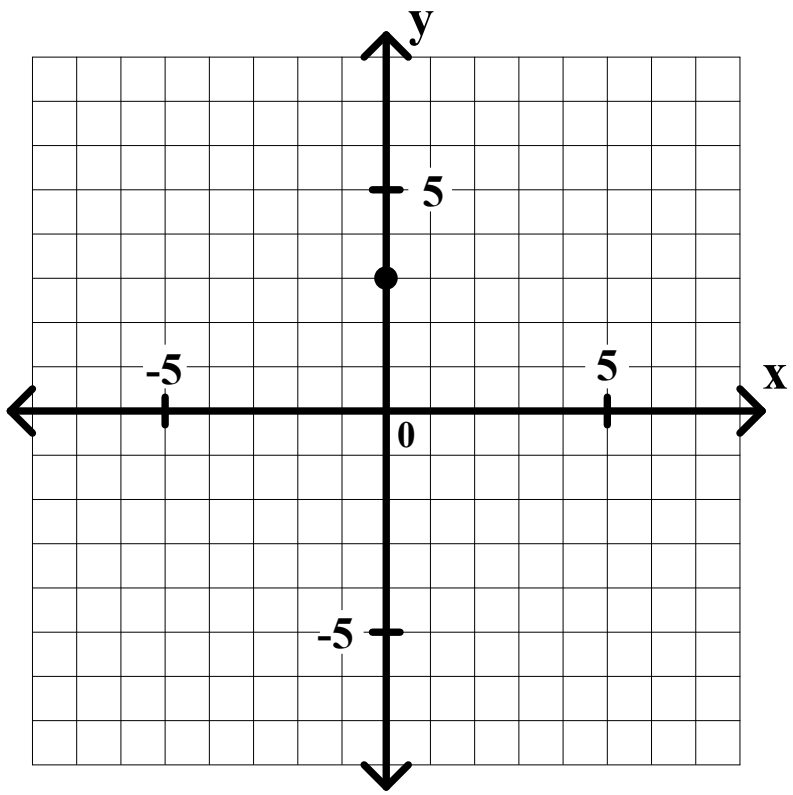

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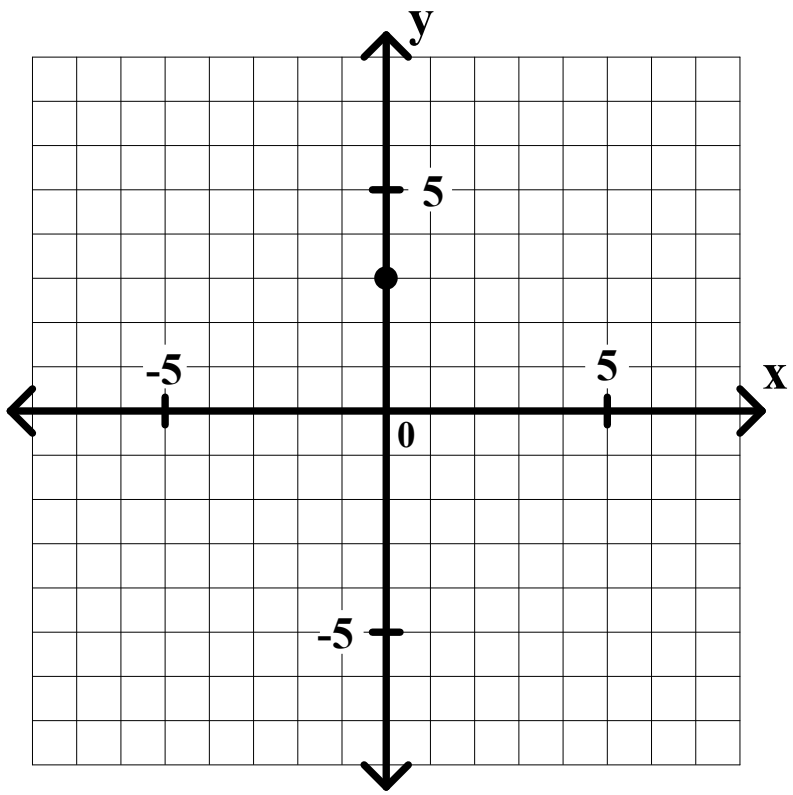

$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

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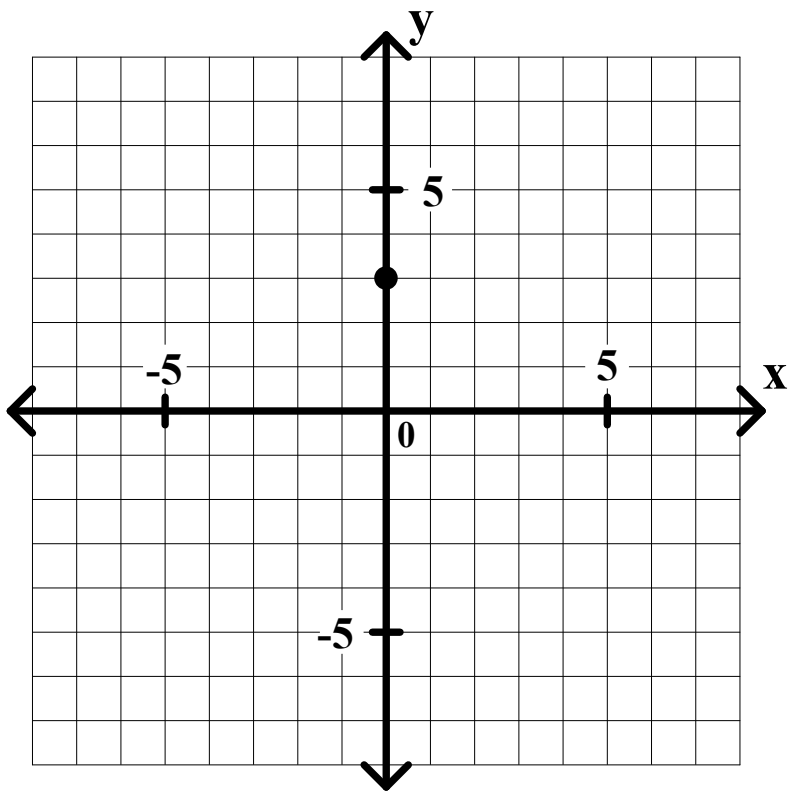

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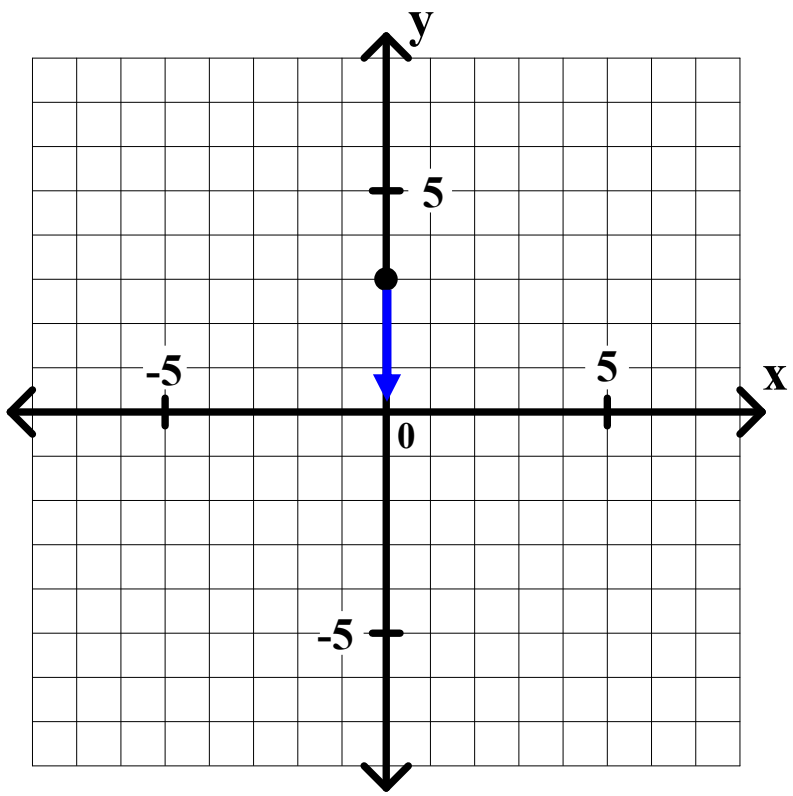

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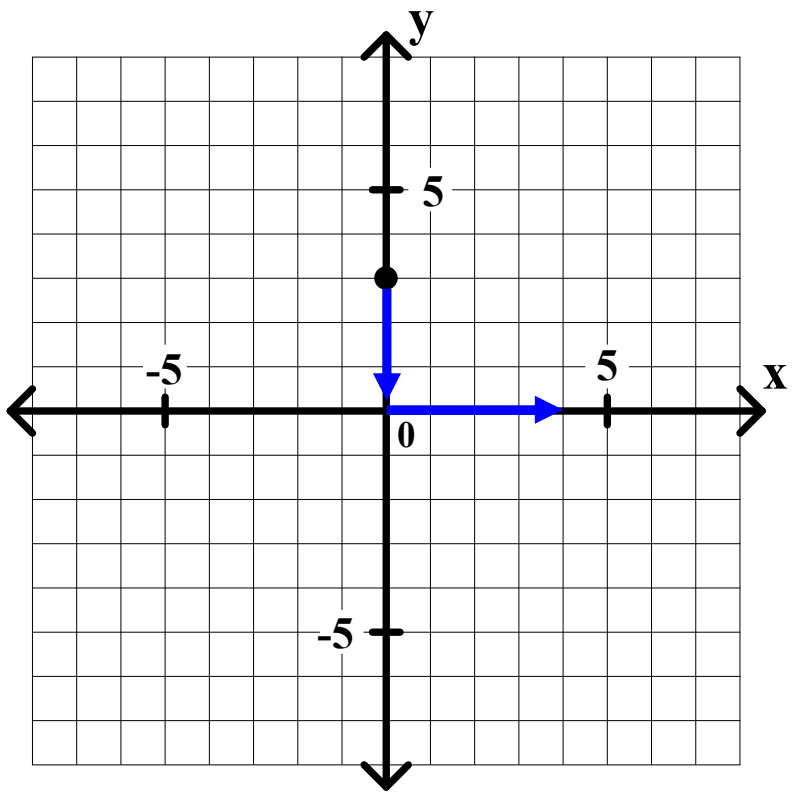

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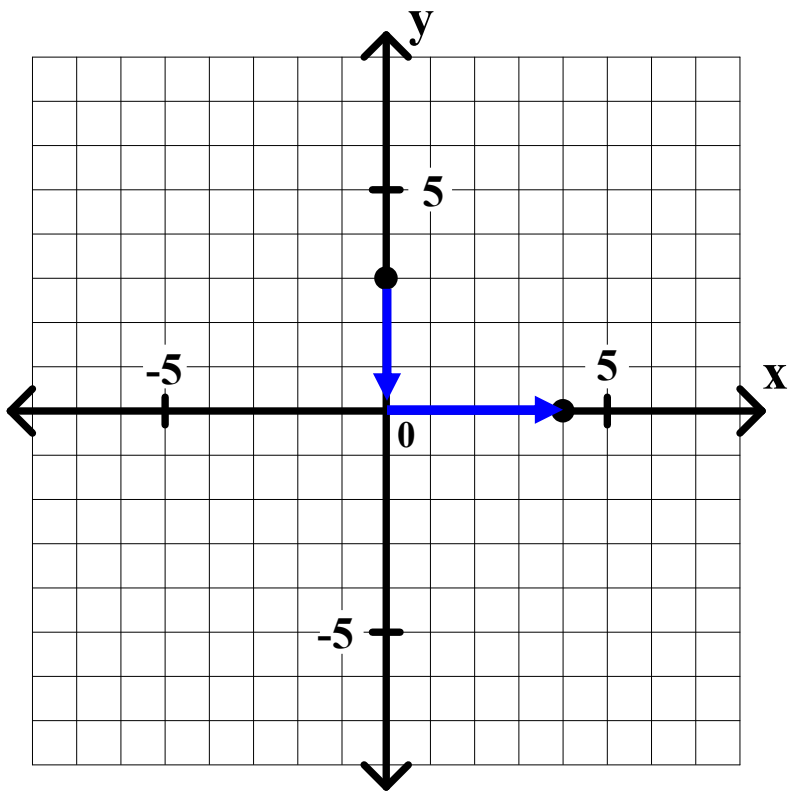

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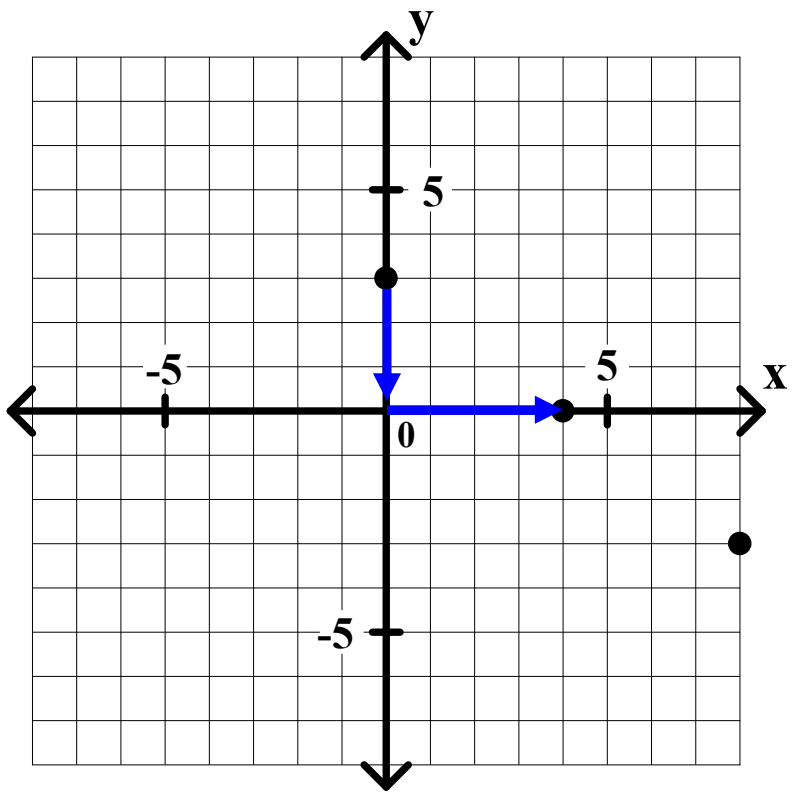

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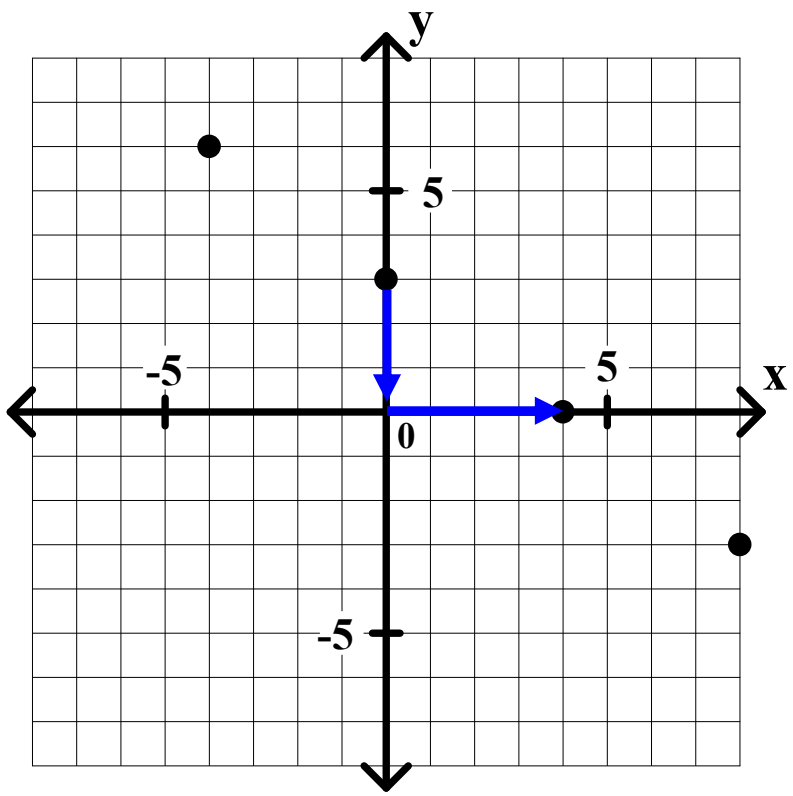

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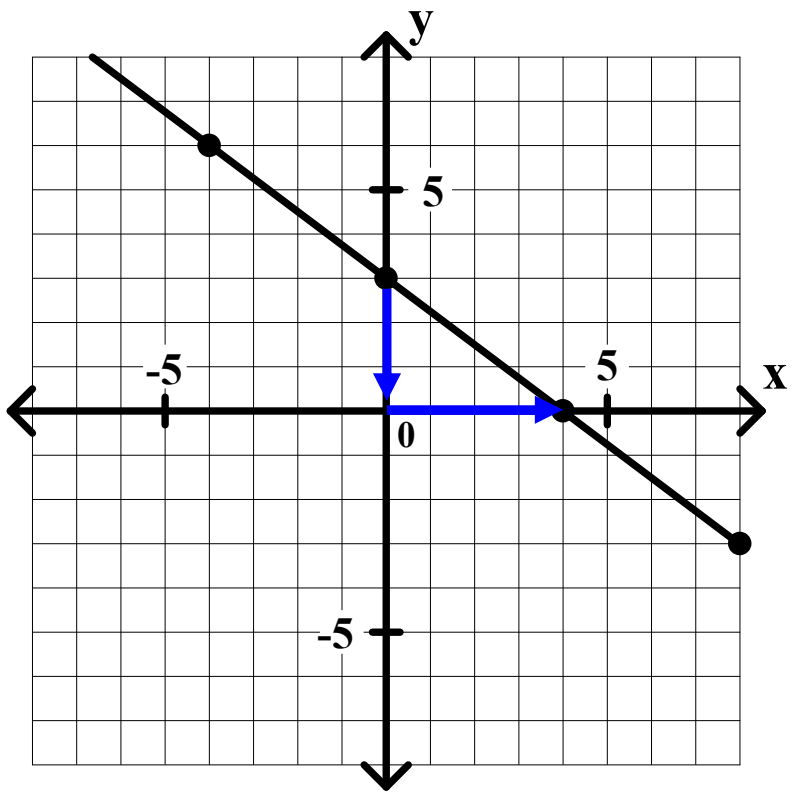

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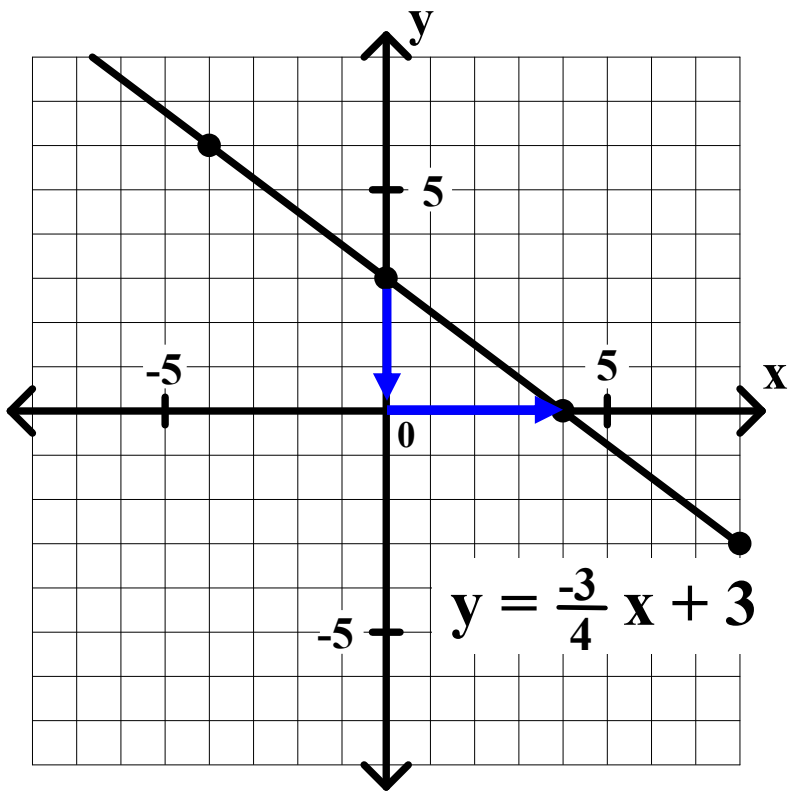

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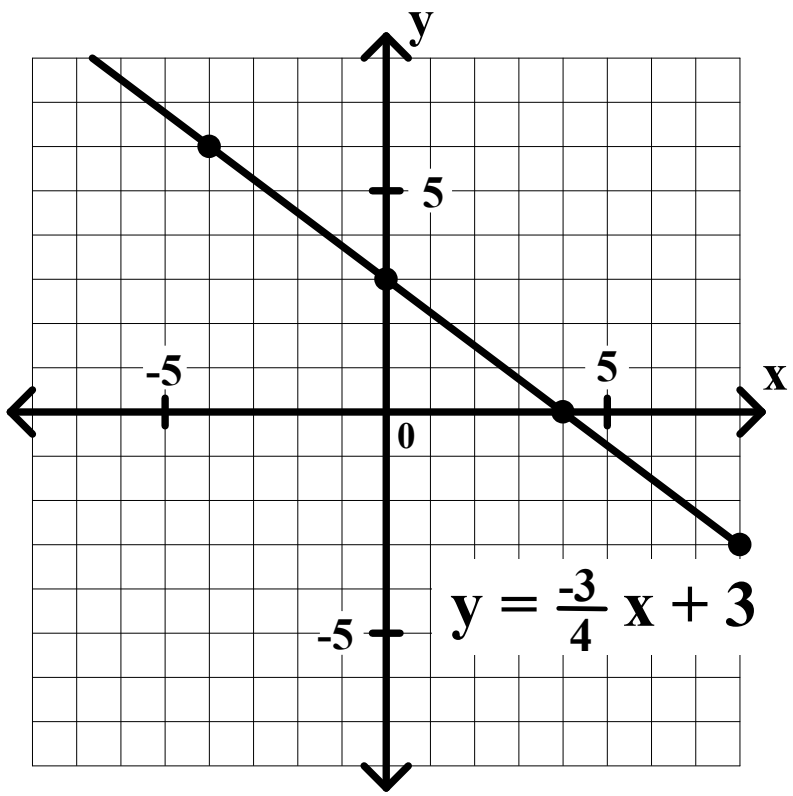

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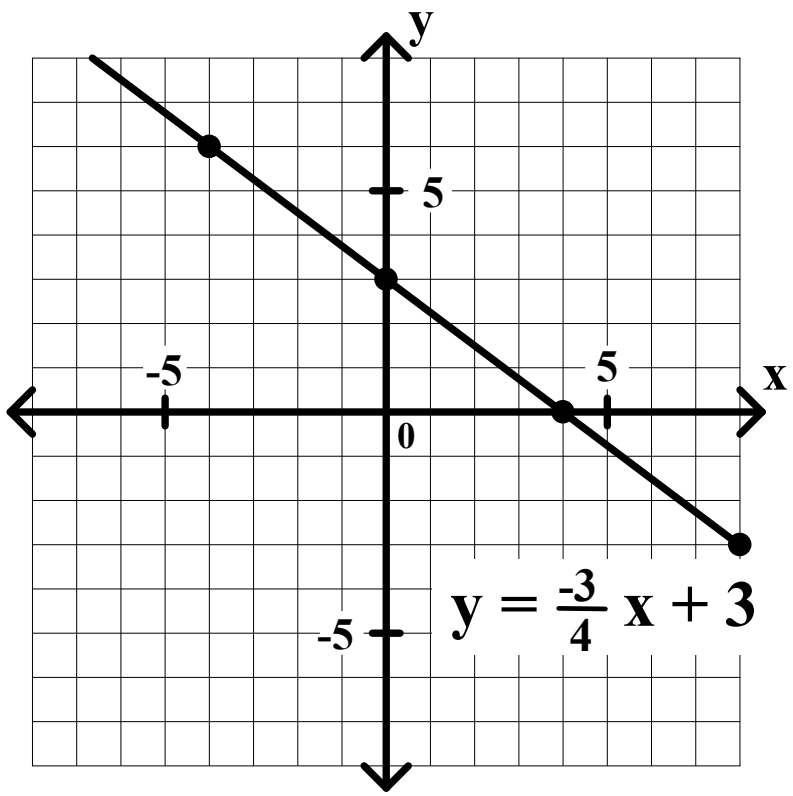

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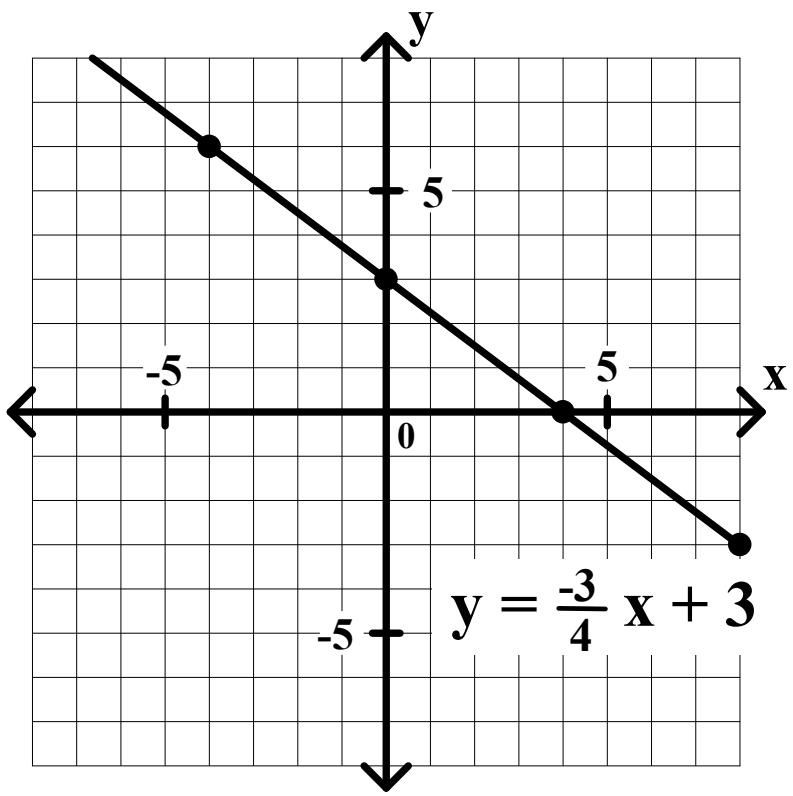

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Solve for y.

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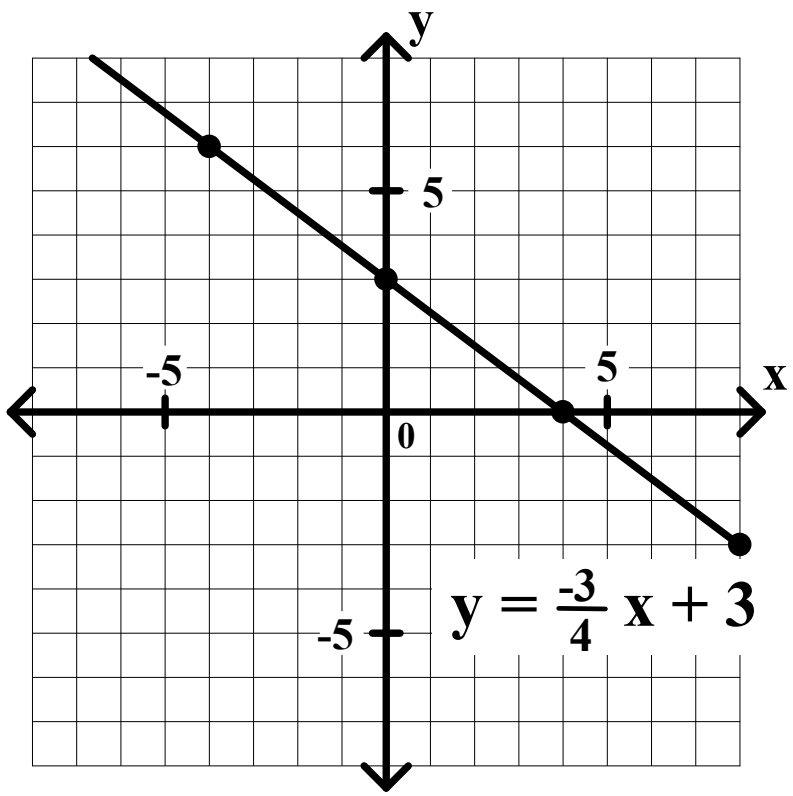

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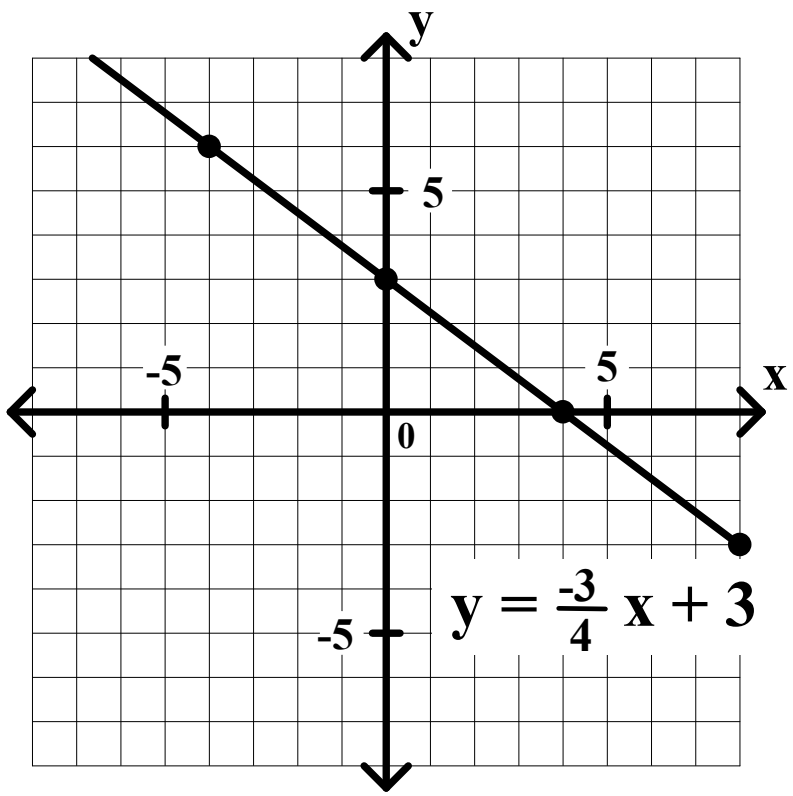

4. $6x - 3y = -12$

$-3y = -6x$

Solve for y.

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

3. $3x + 4y = 12$

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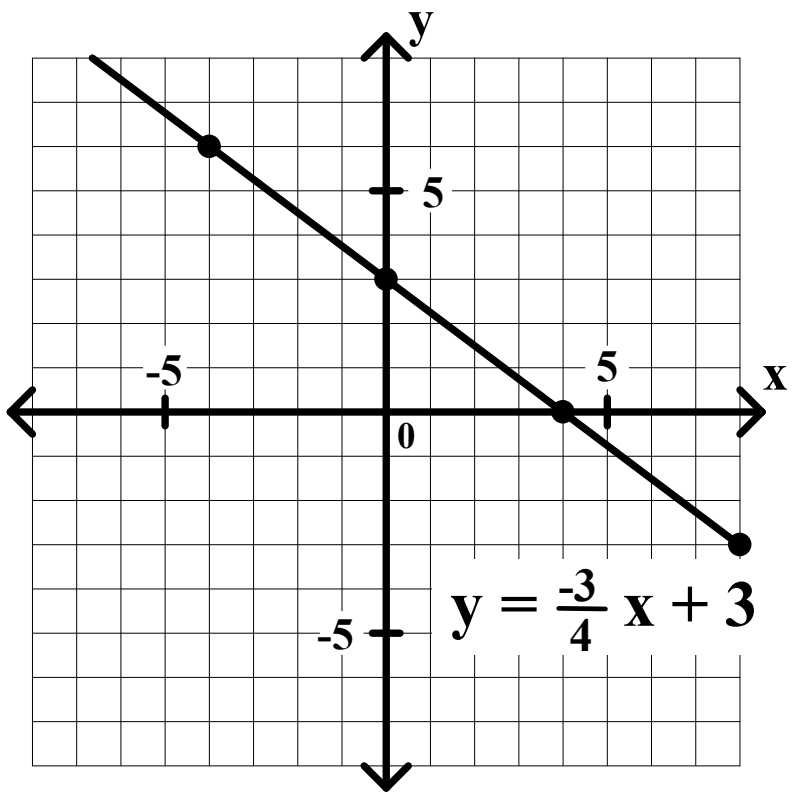

4. $6x - 3y = -12$

$-3y = -6x - 12$

Solve for y.

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

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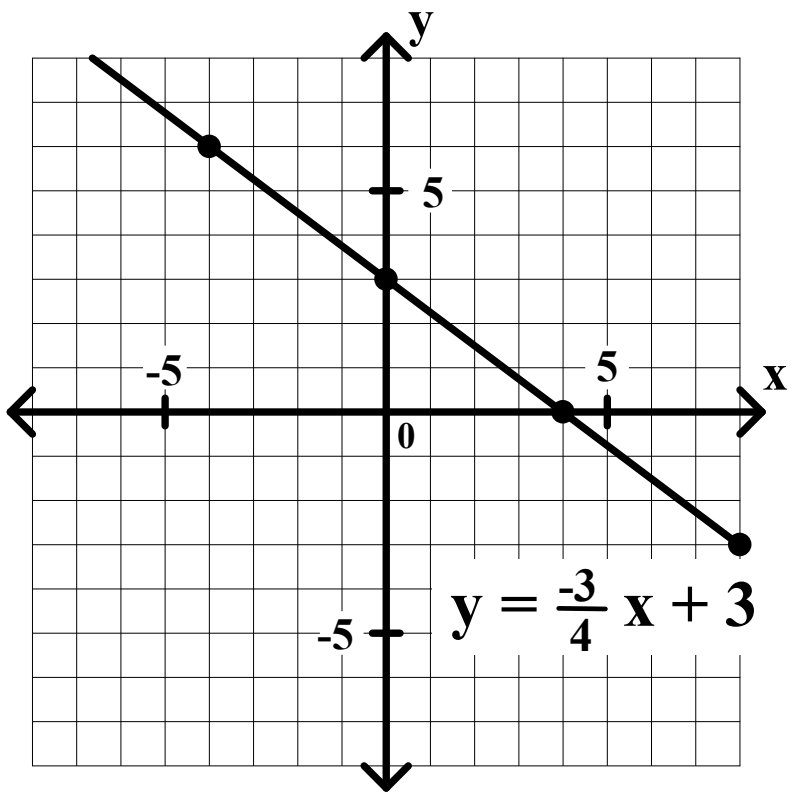

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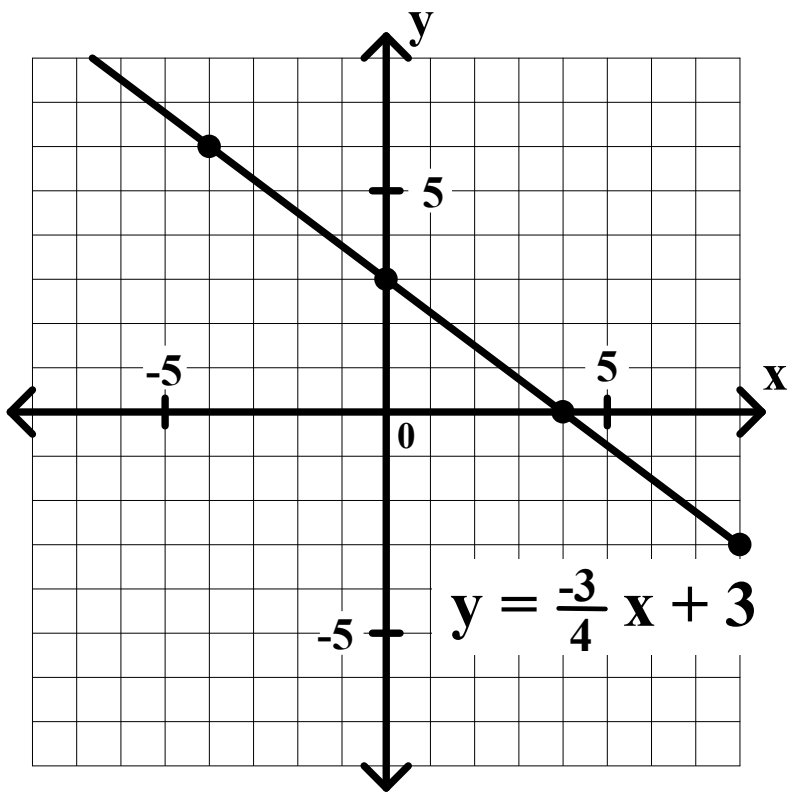

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$y = 2x$

Solve for y.

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

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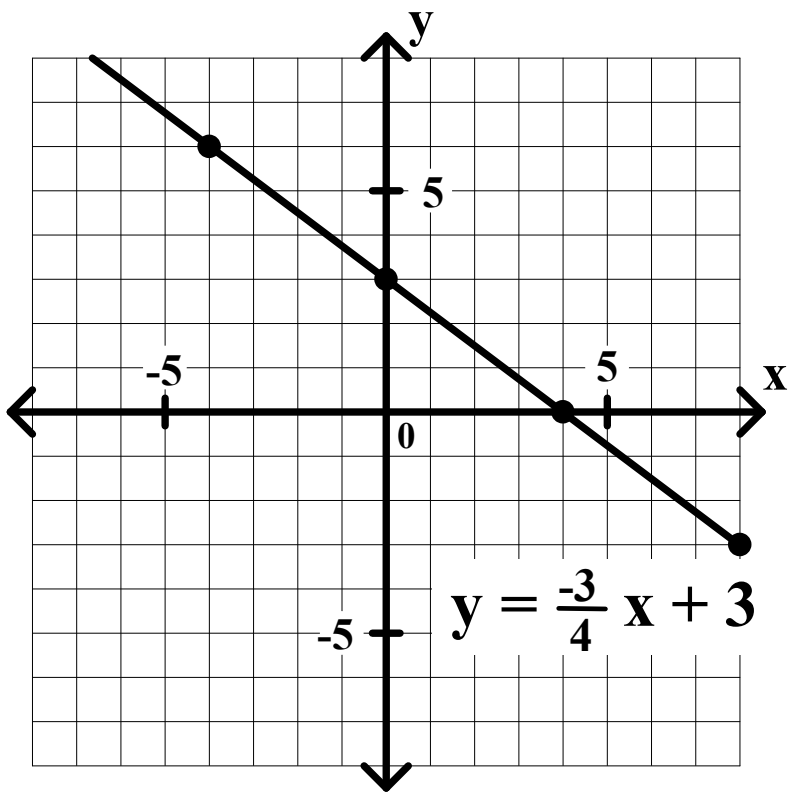

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Solve for y.

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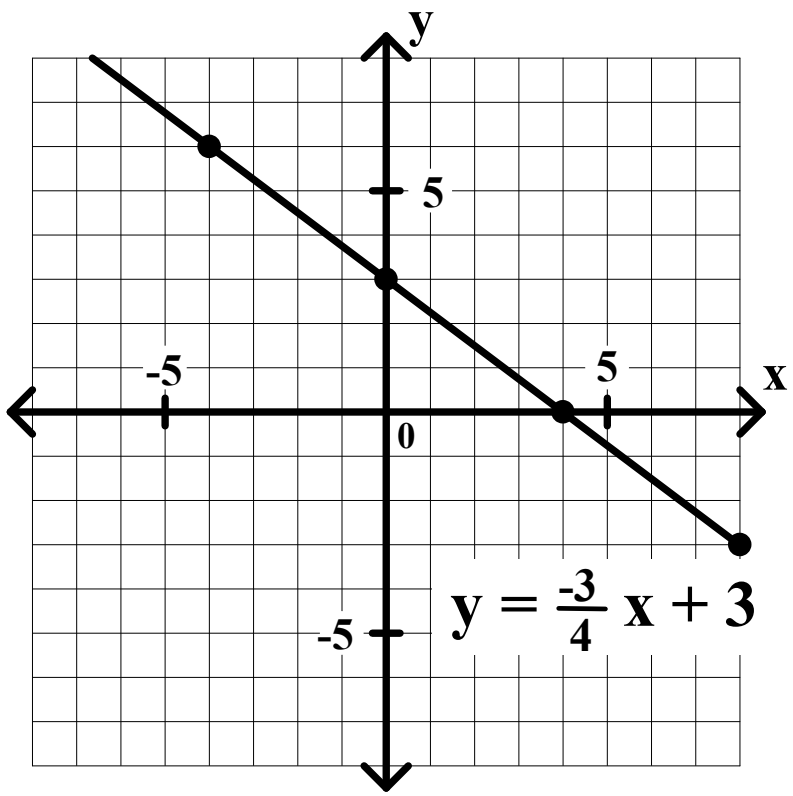

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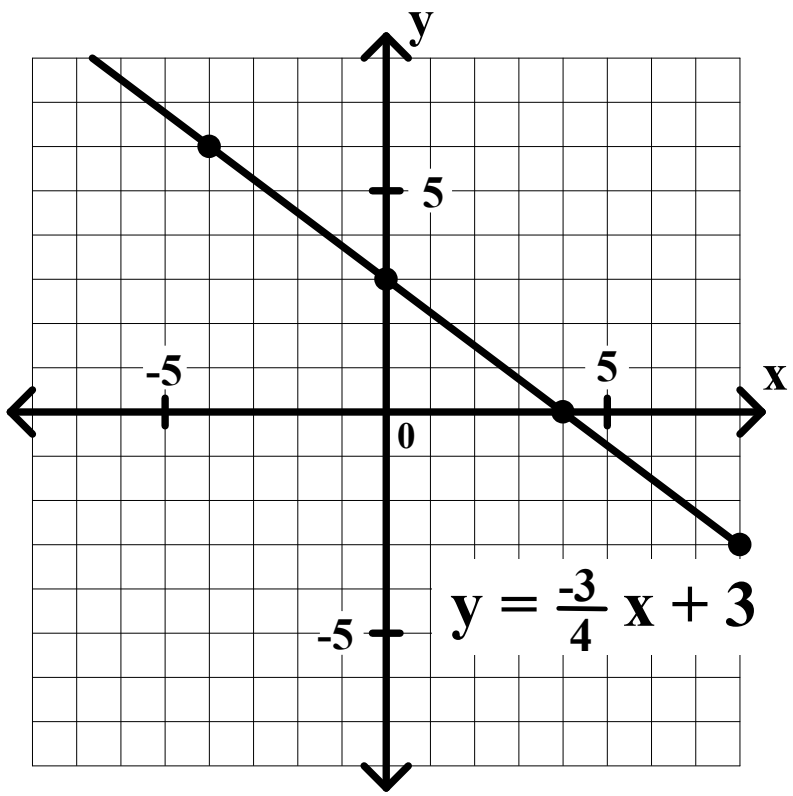

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Use the y-intercept and the slope to graph the equation.

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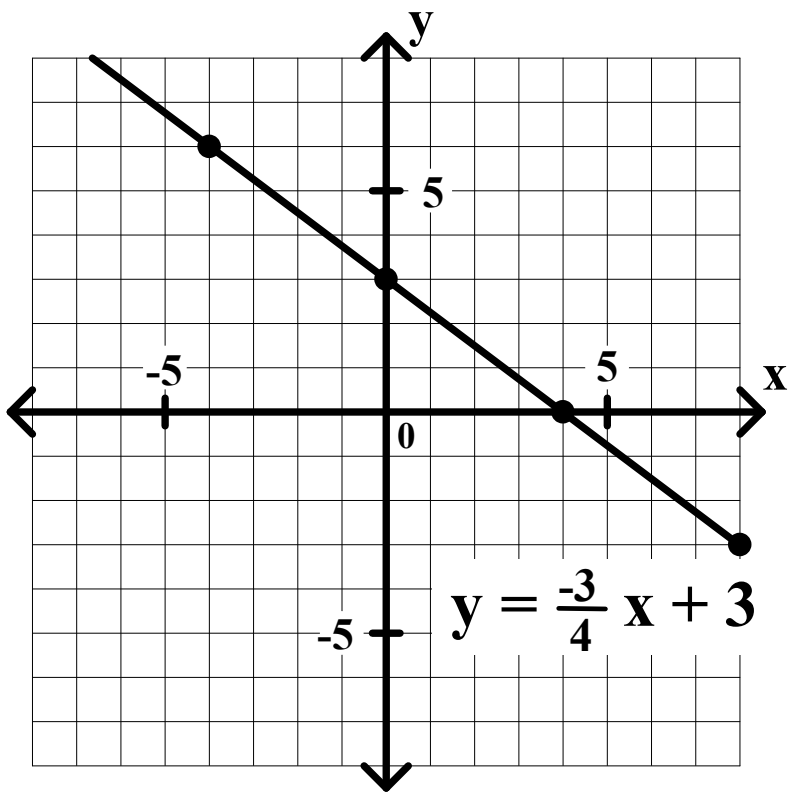

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y-intercept

Use the y-intercept and the slope to graph the equation.

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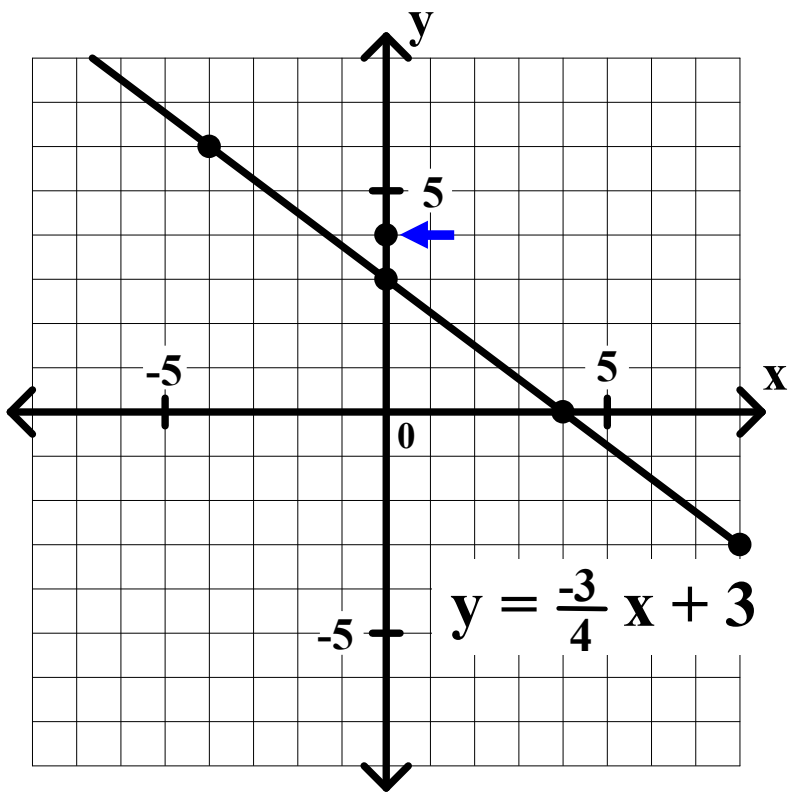

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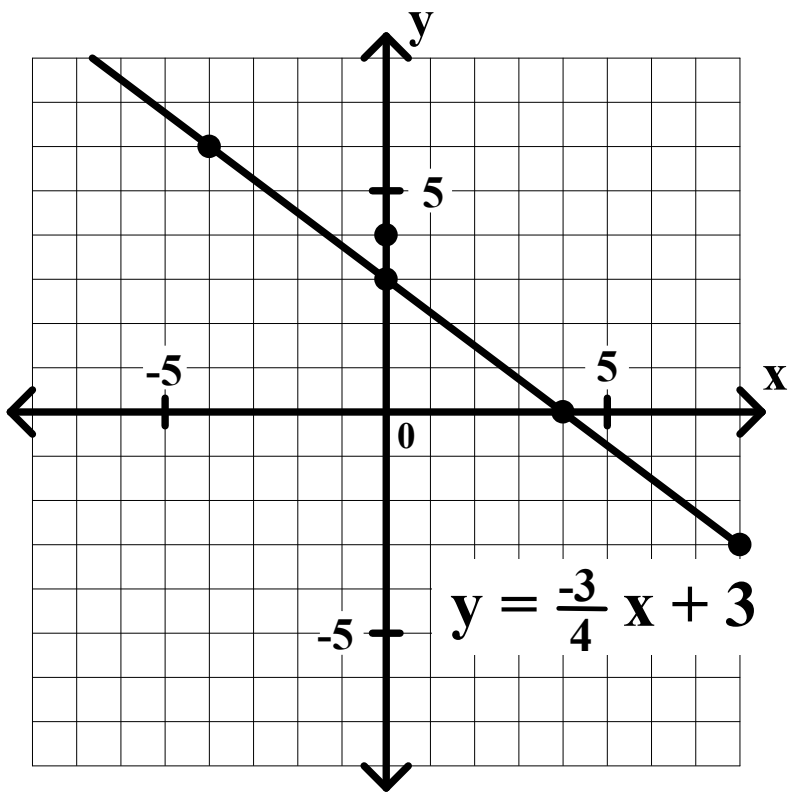

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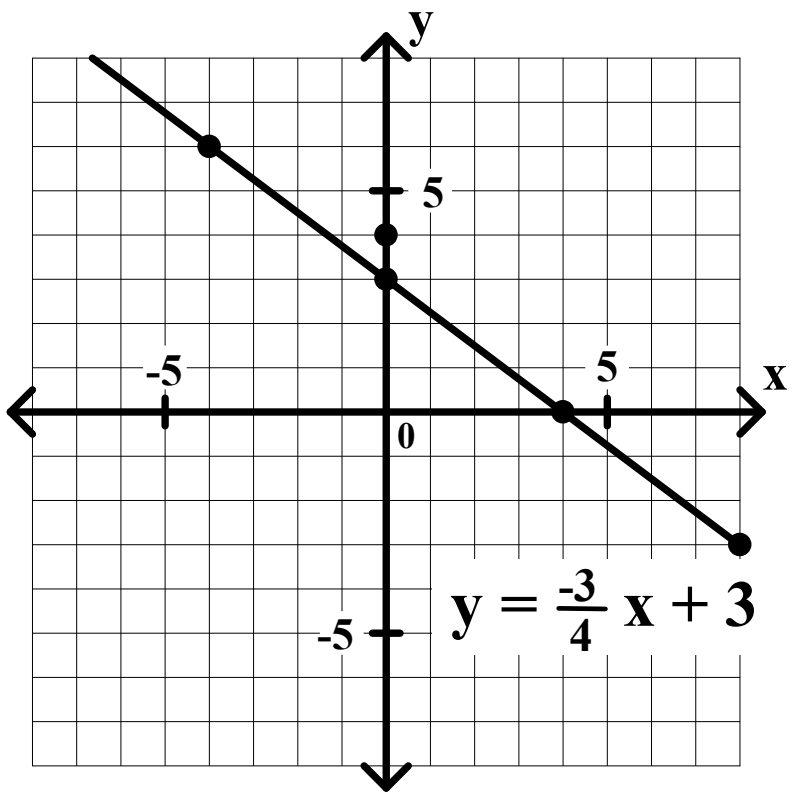

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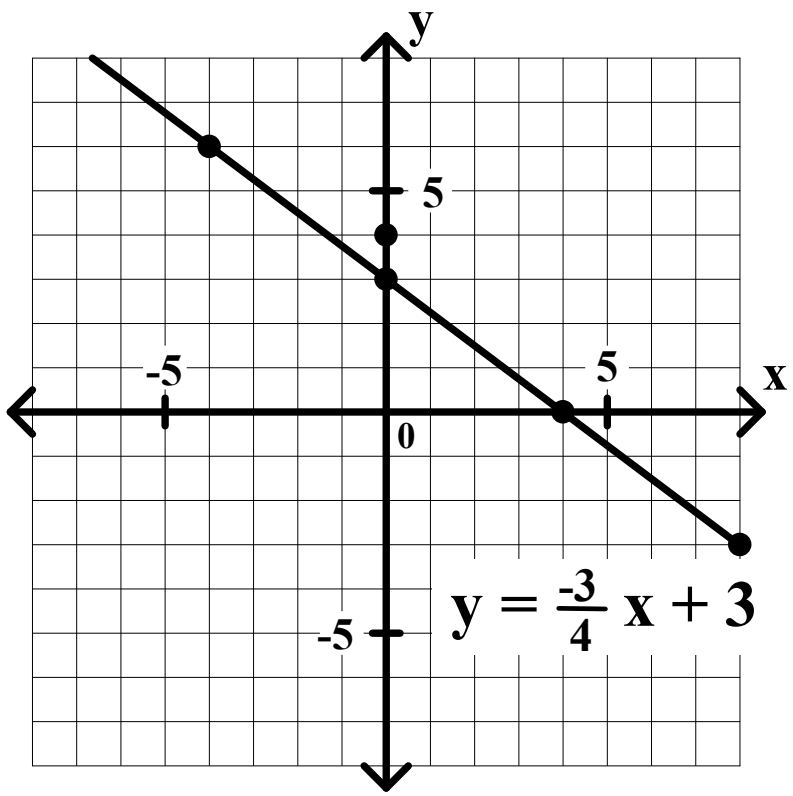

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slope = $\frac{\text{rise}}{\text{run}}$

Use the y-intercept and the slope to graph the equation.

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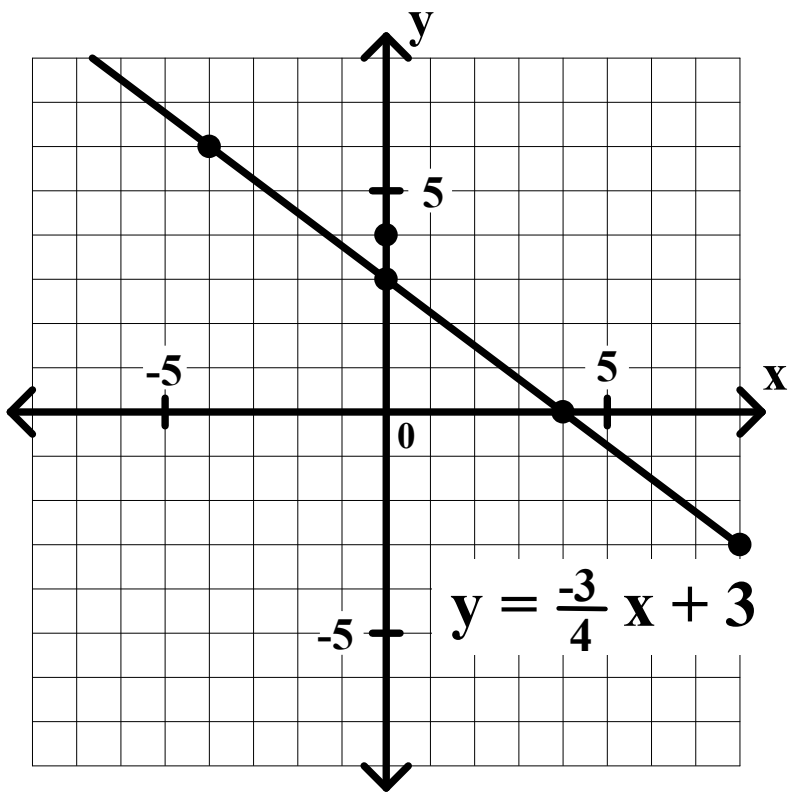

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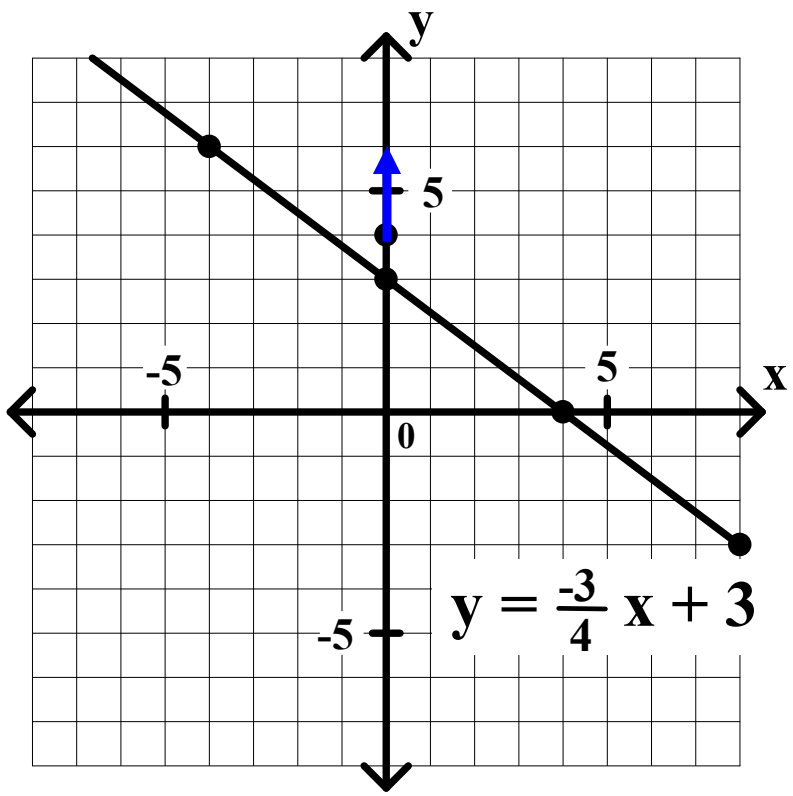

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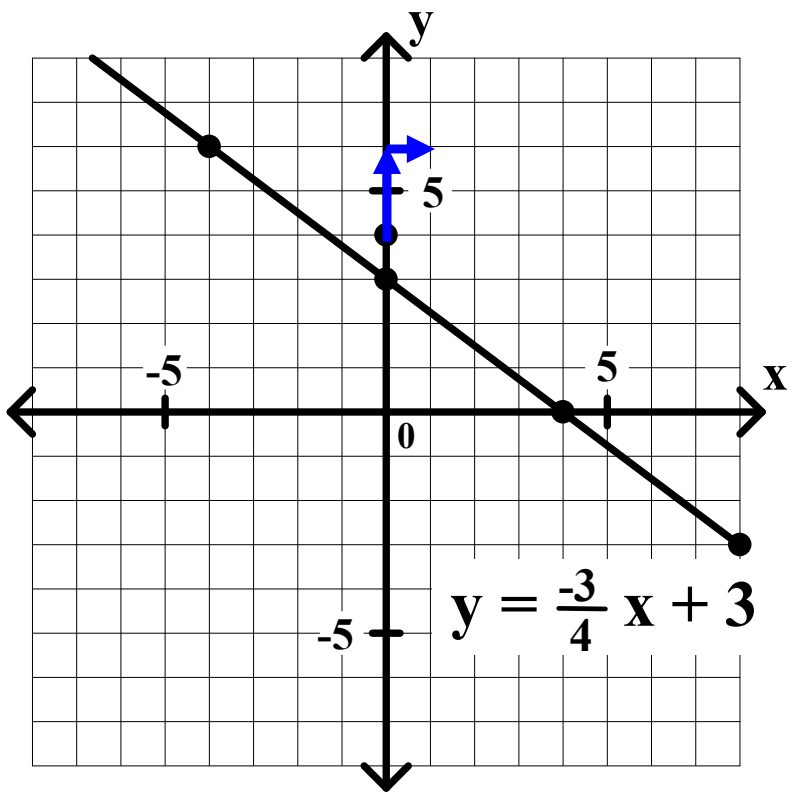

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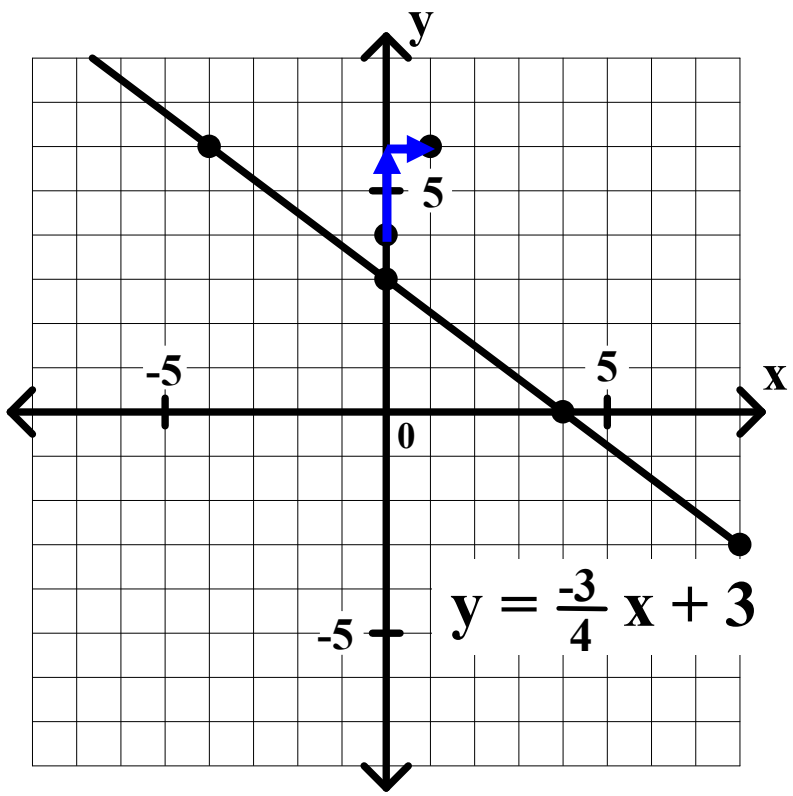

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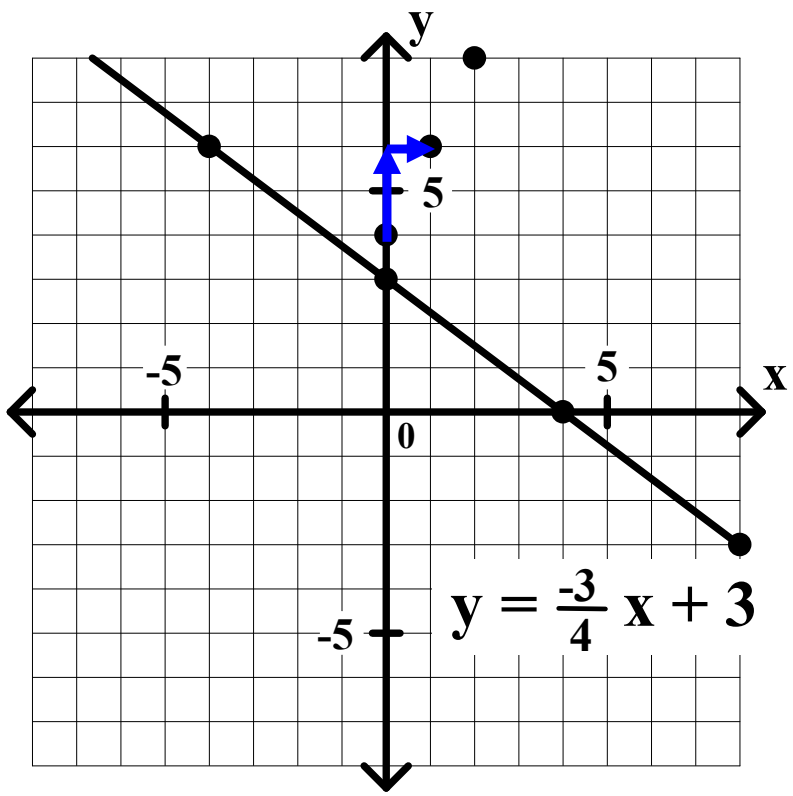

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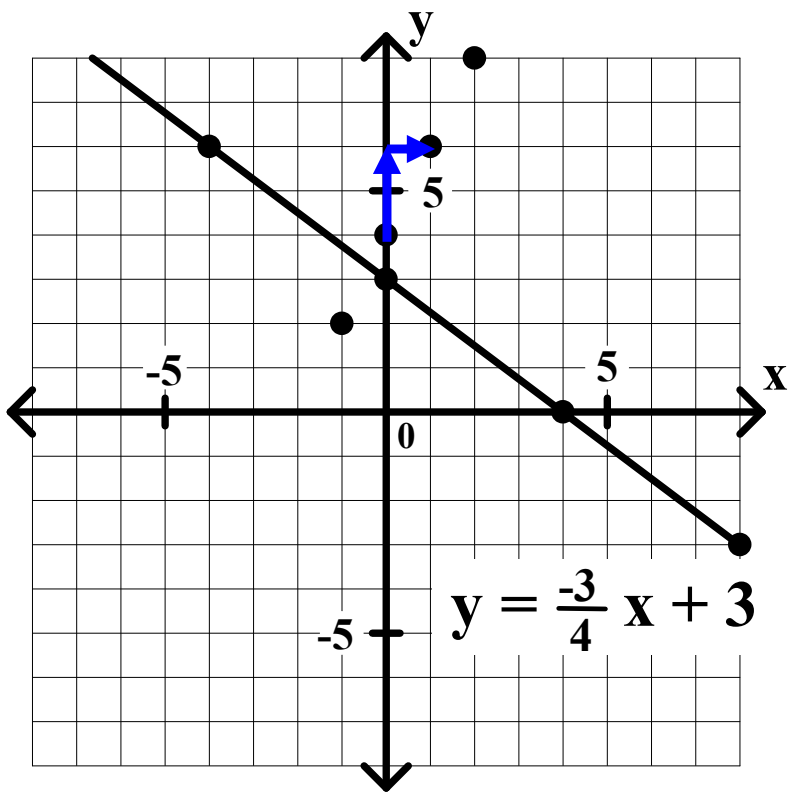

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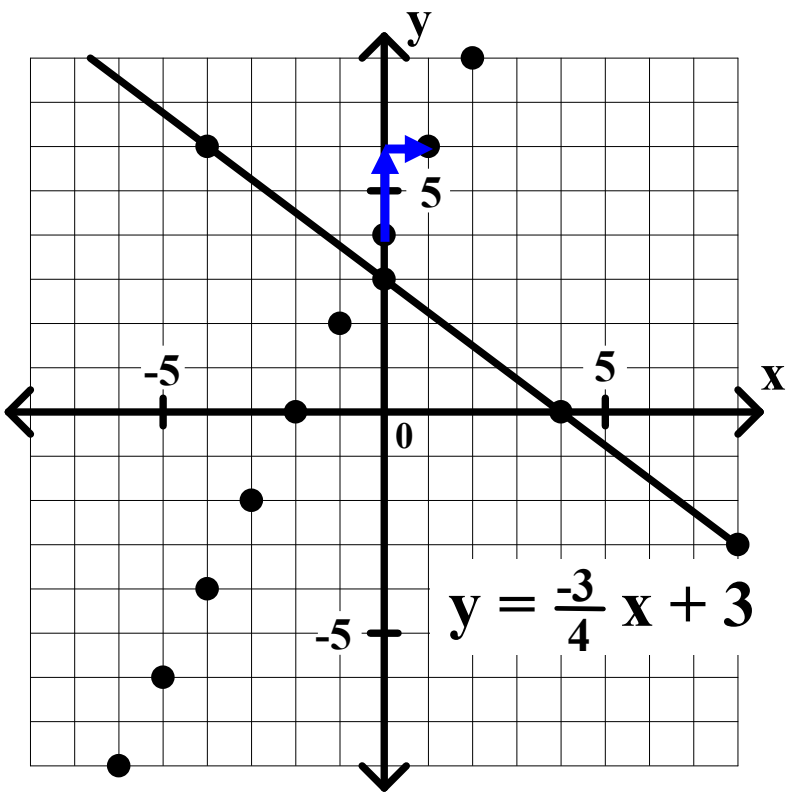

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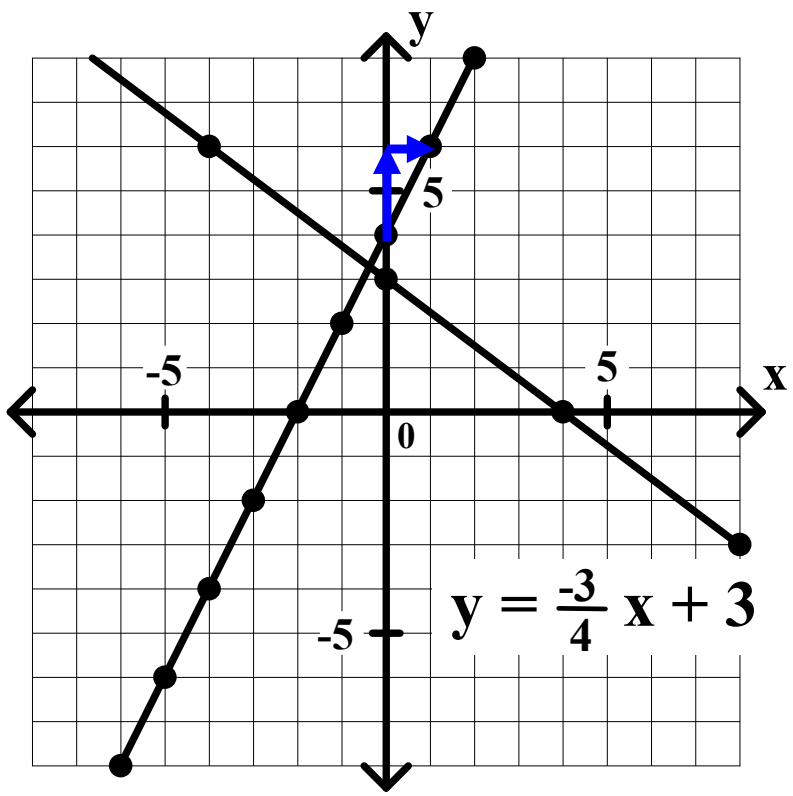

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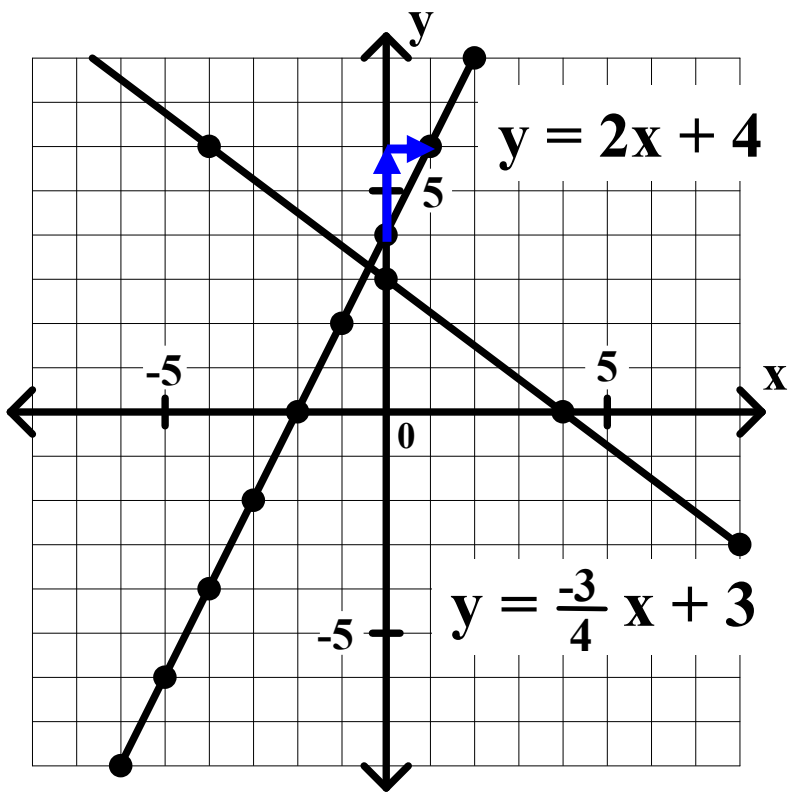

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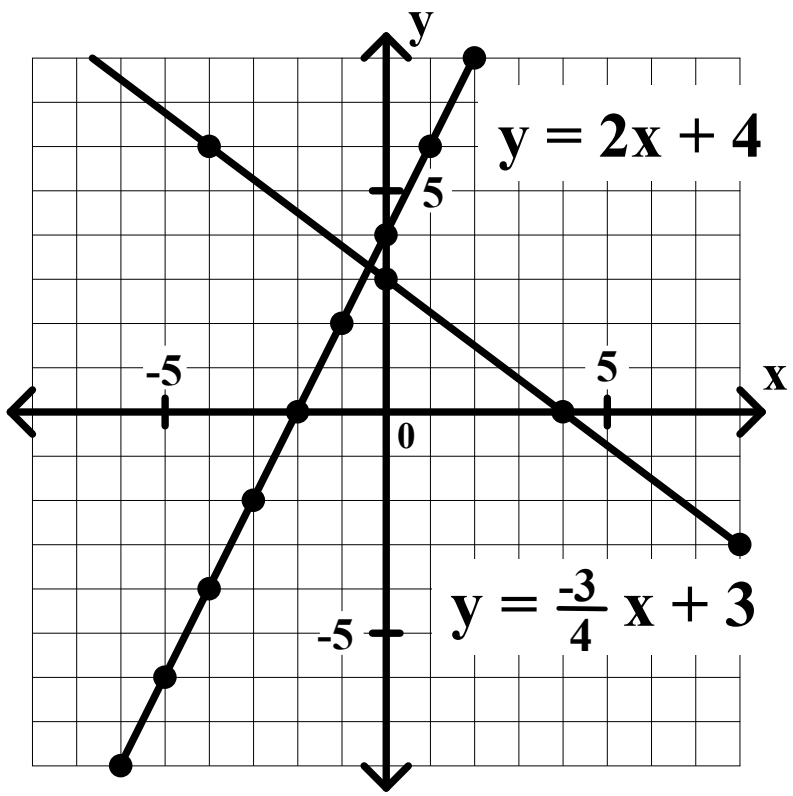
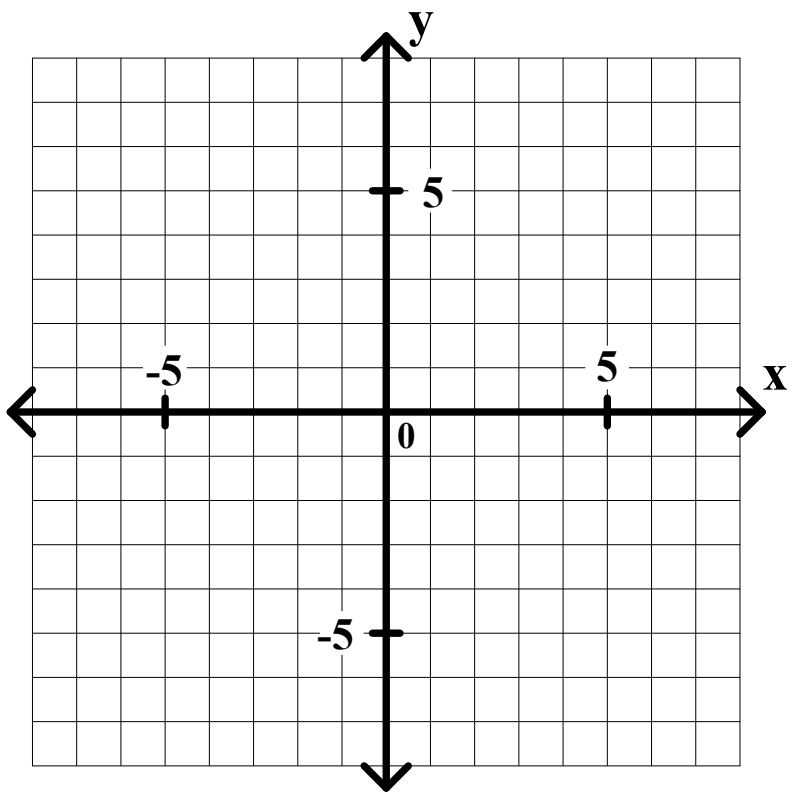


Algebra II Class Worksheet #1 Unit 2

Graph the equations.

5. x – 5y = -5



6. x + 4y = -12

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

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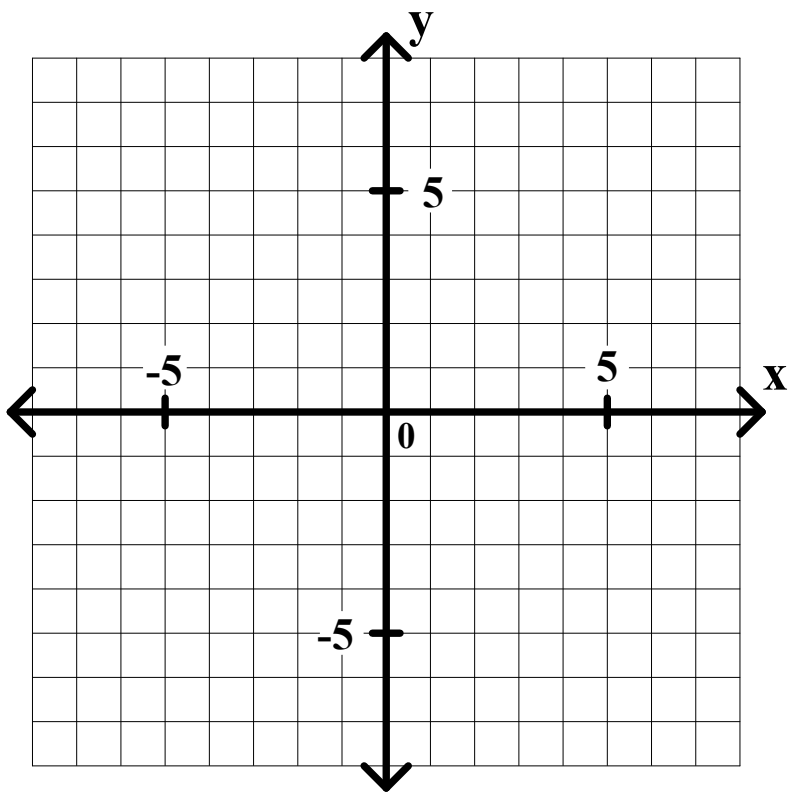

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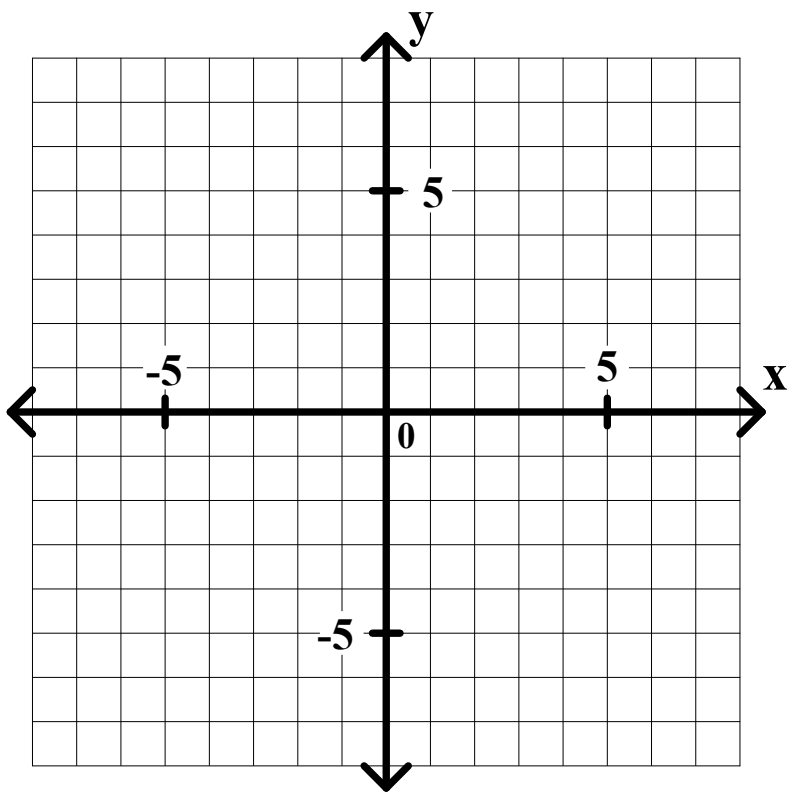

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Solve for y.

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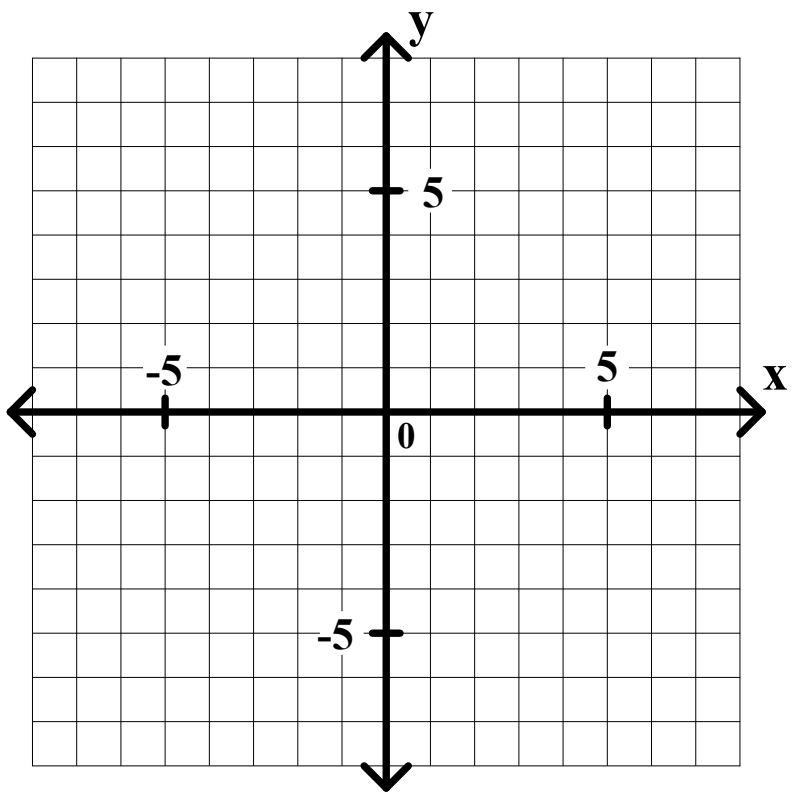

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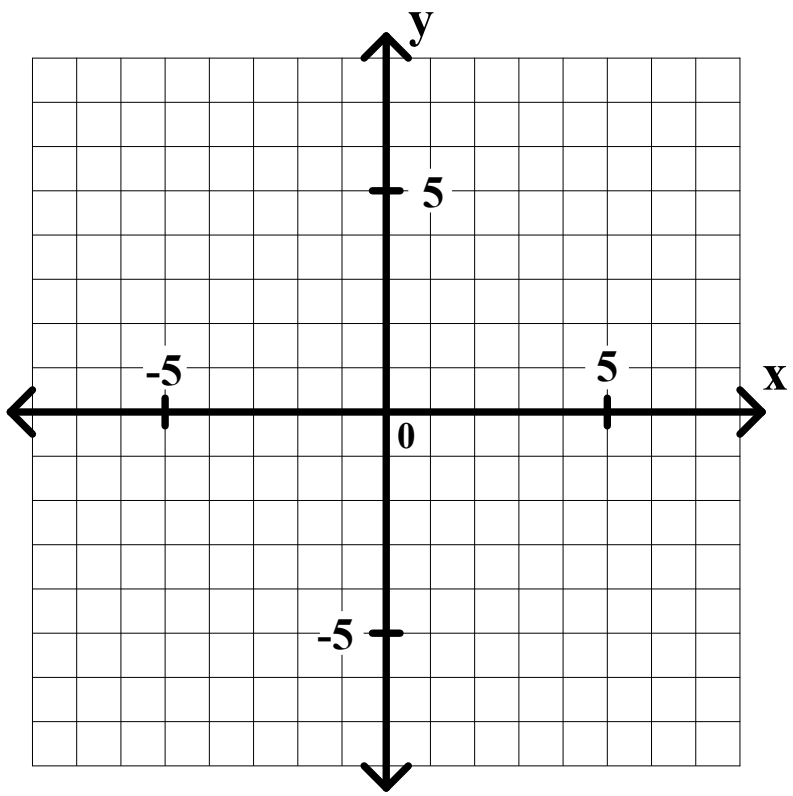

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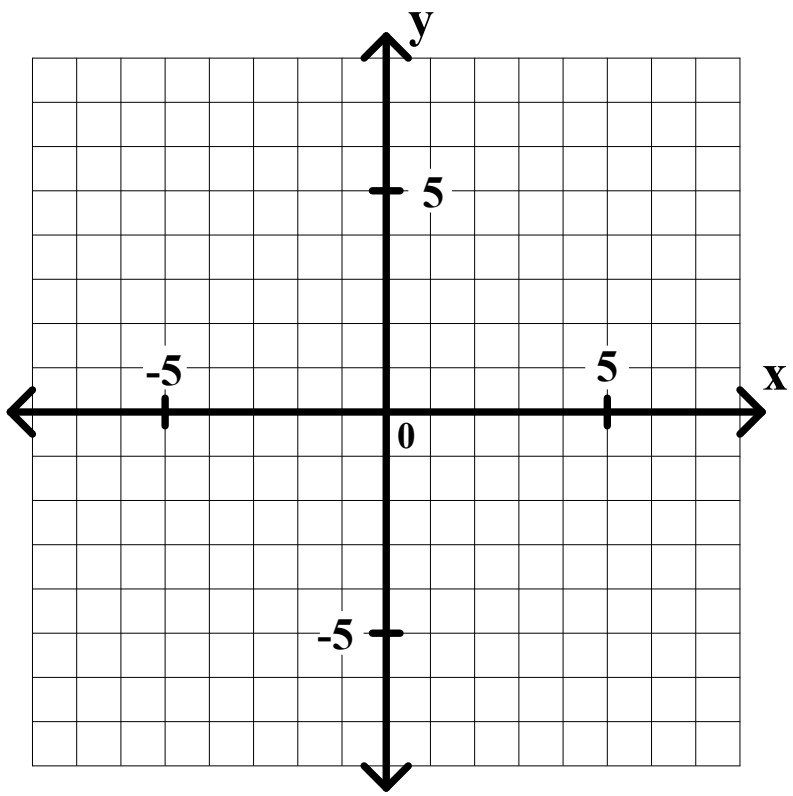

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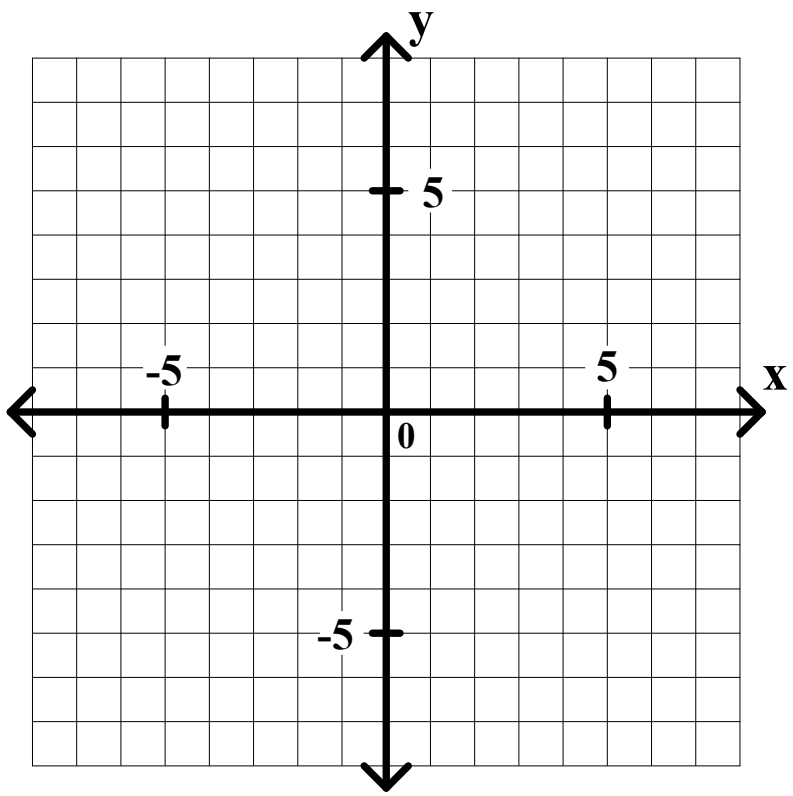

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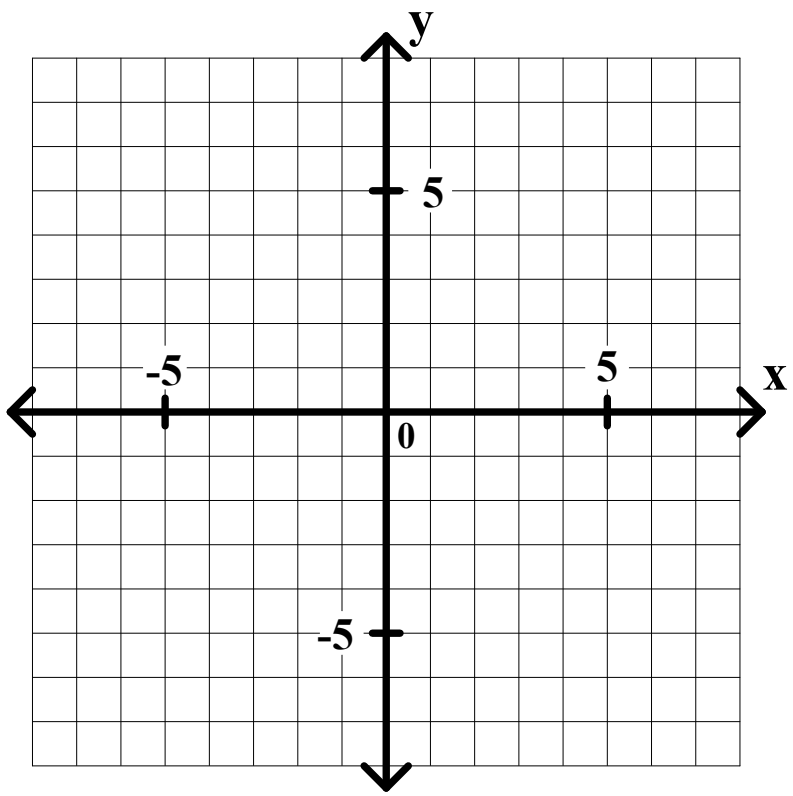

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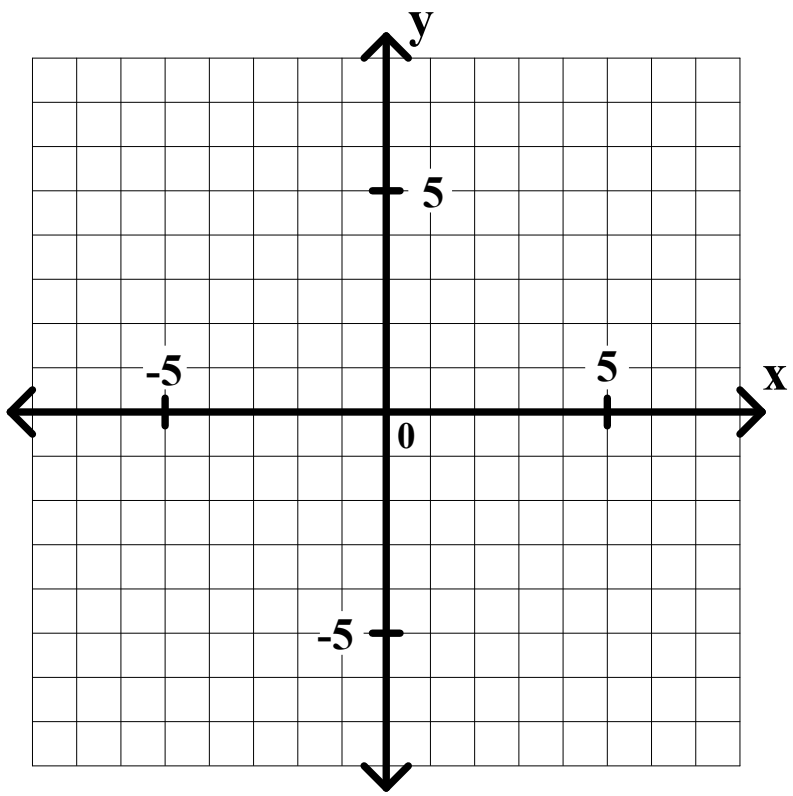

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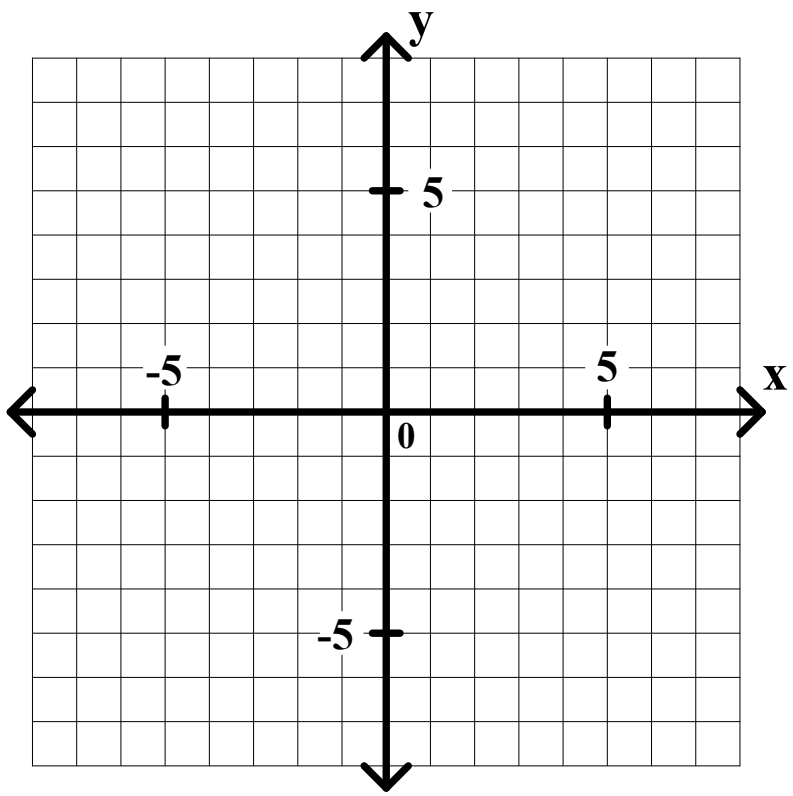

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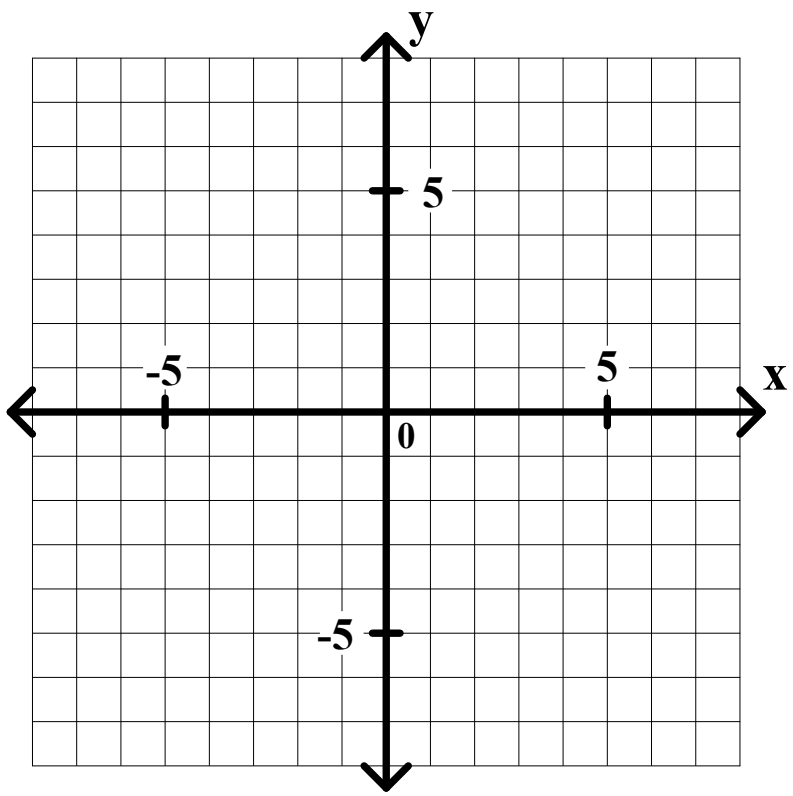

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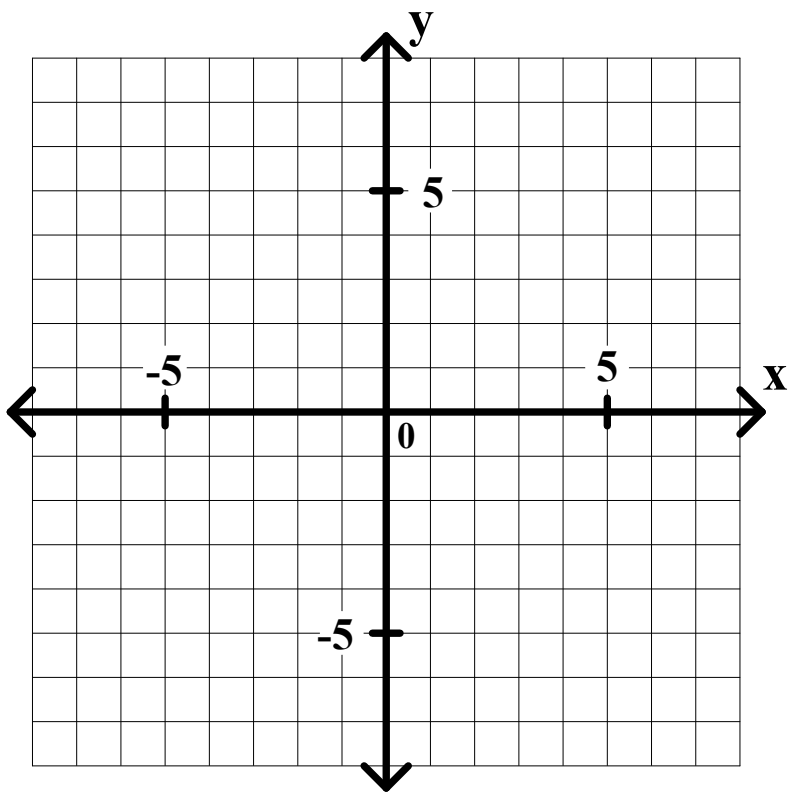

Use the y-intercept and the slope to graph the equation.

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

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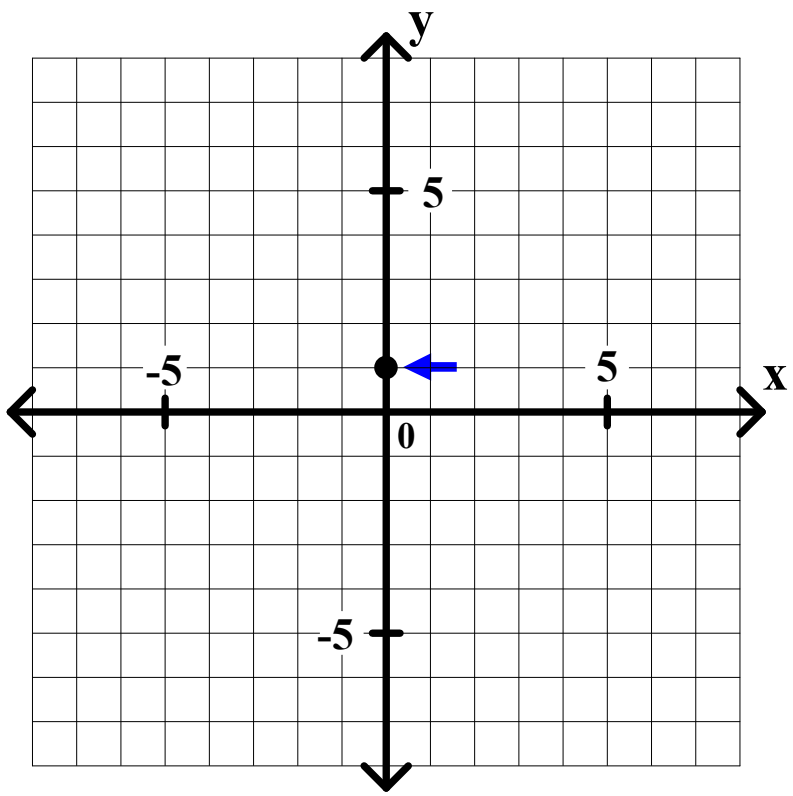

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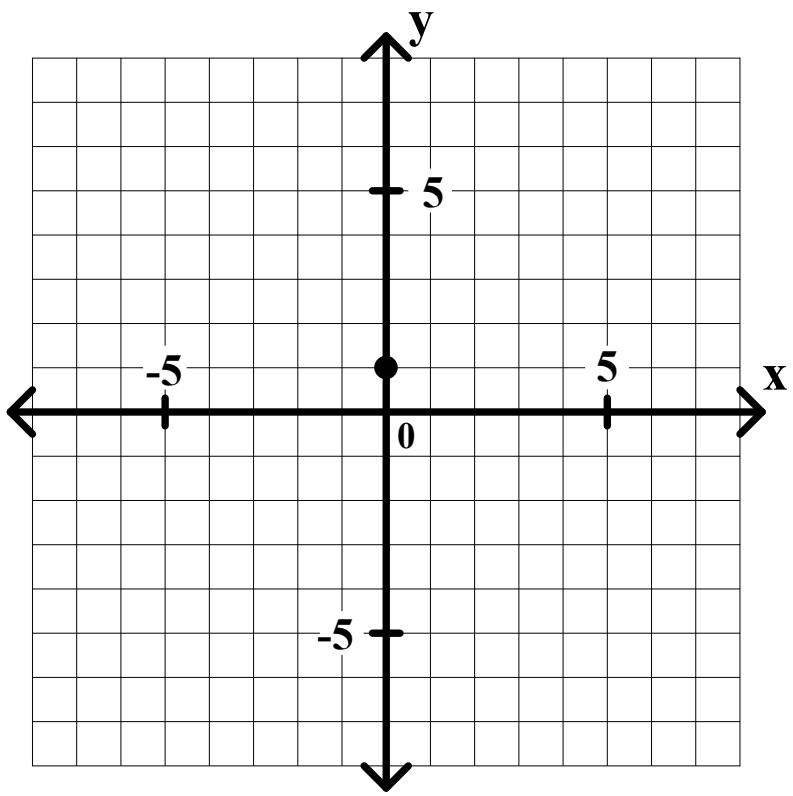

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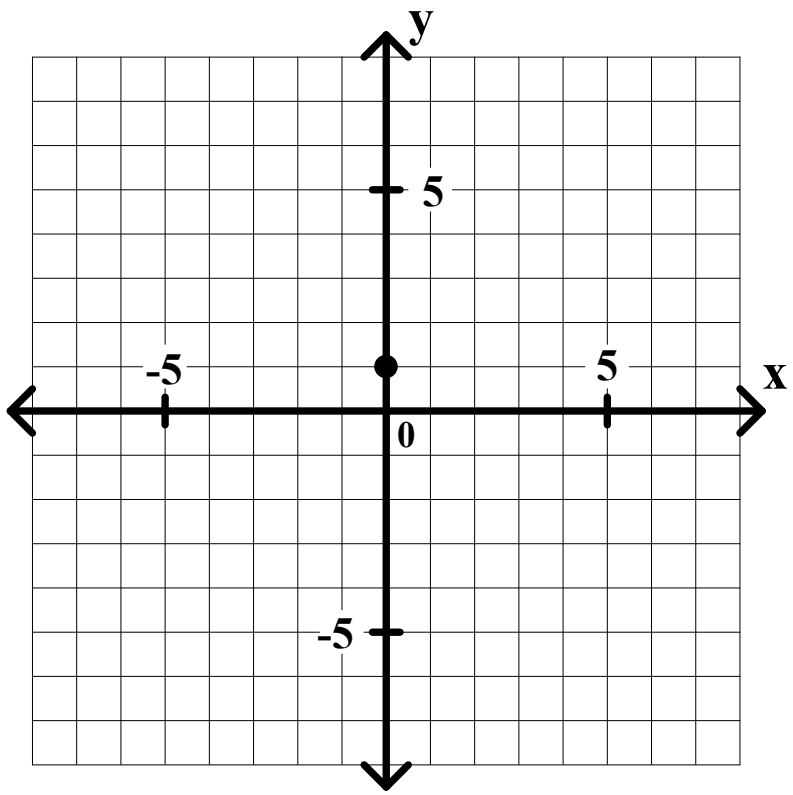

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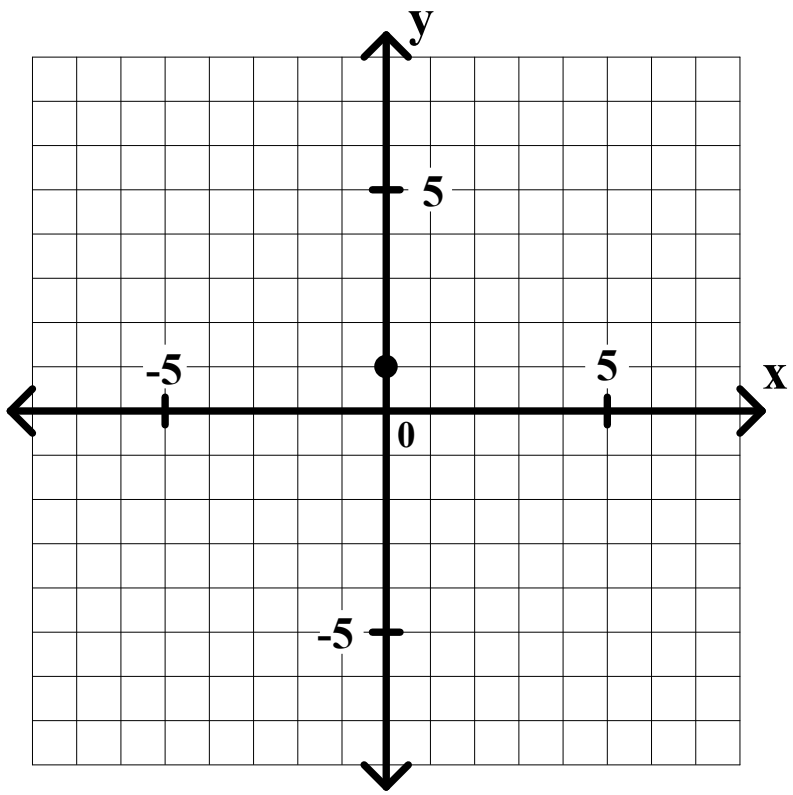

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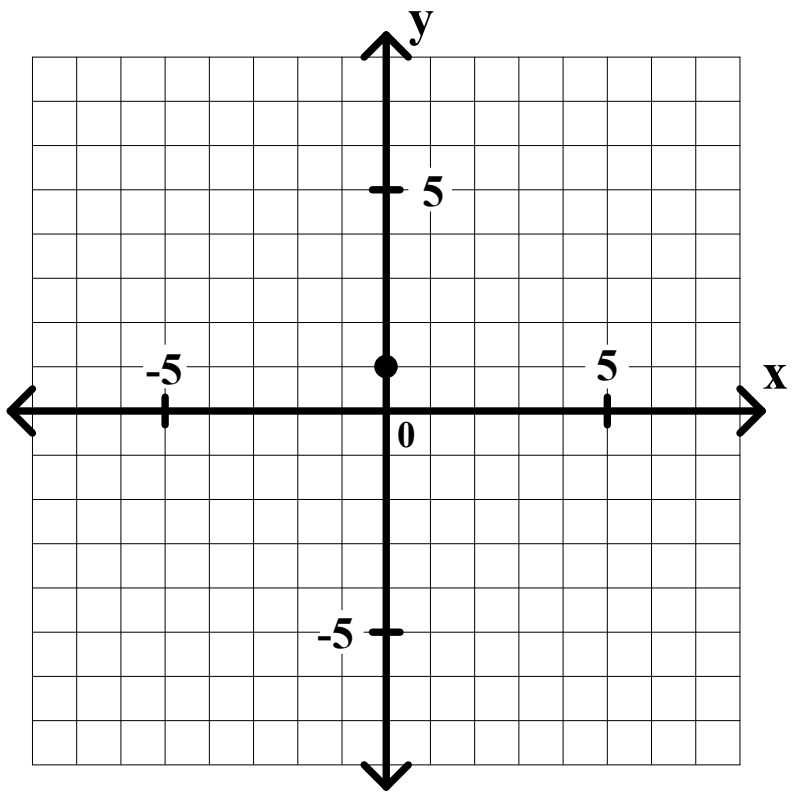

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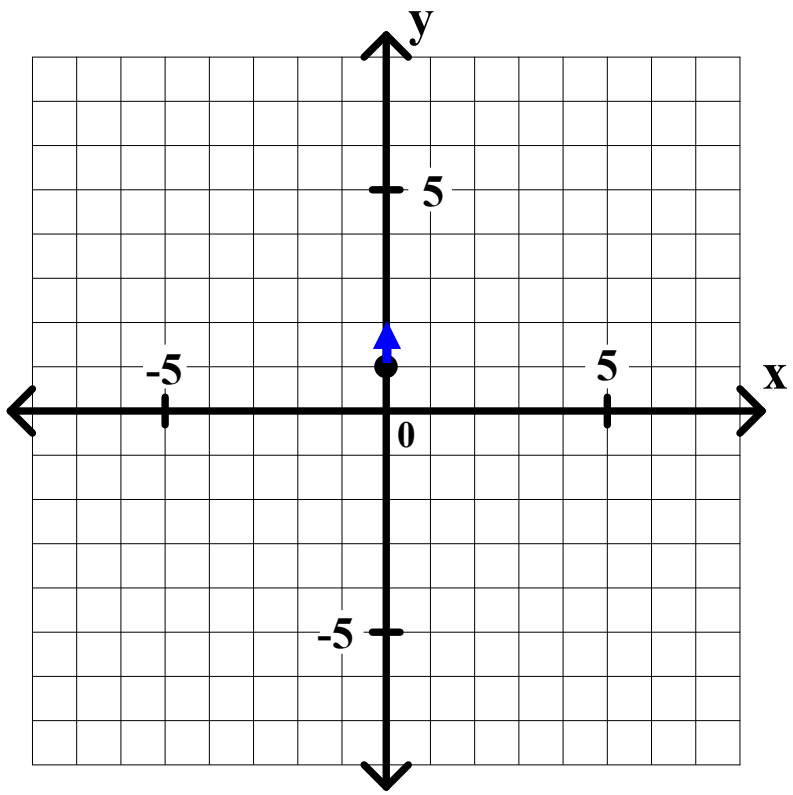

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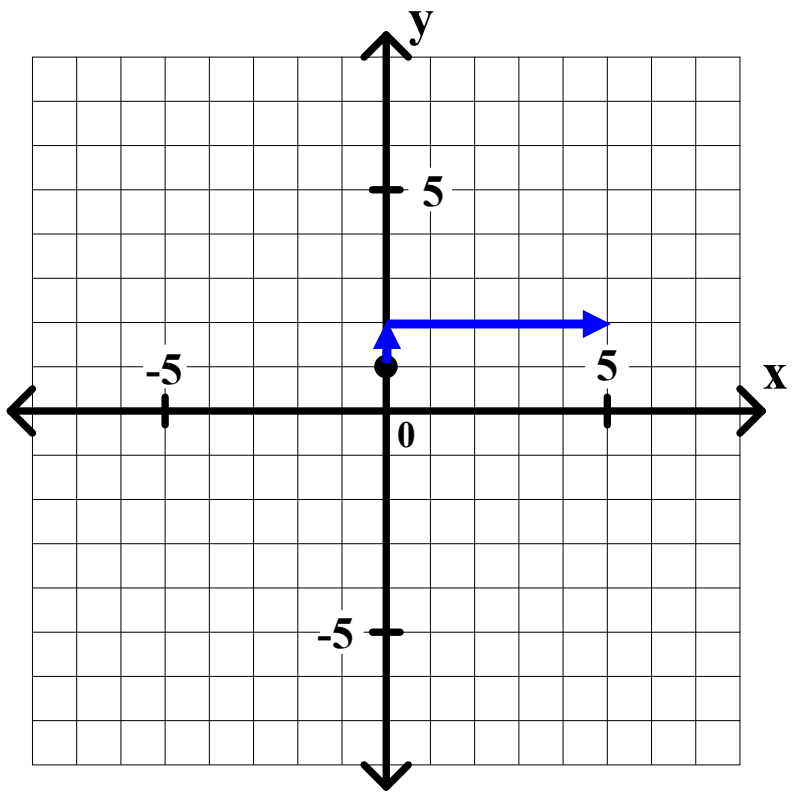

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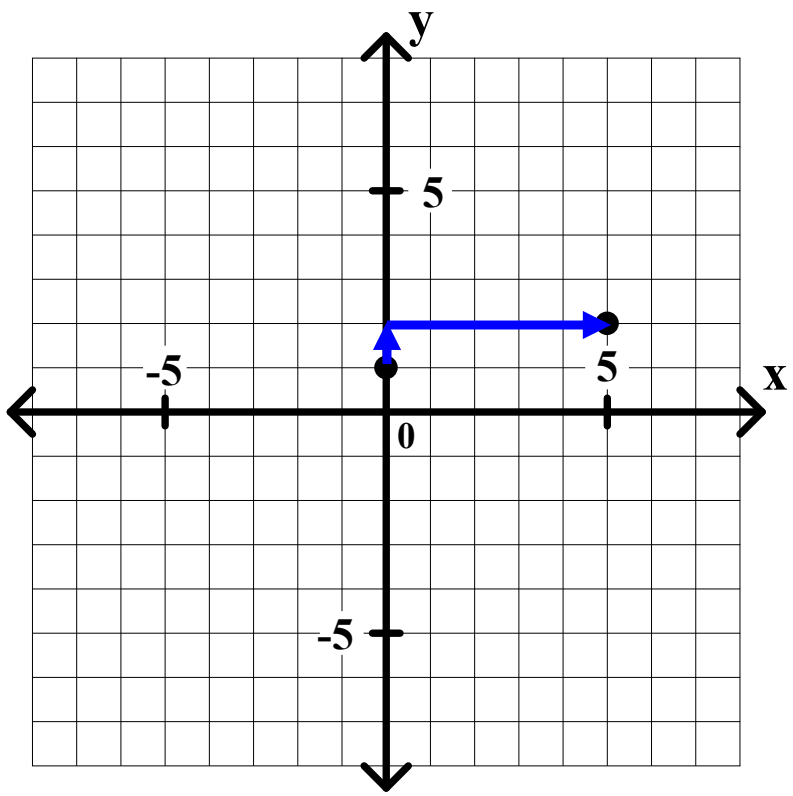

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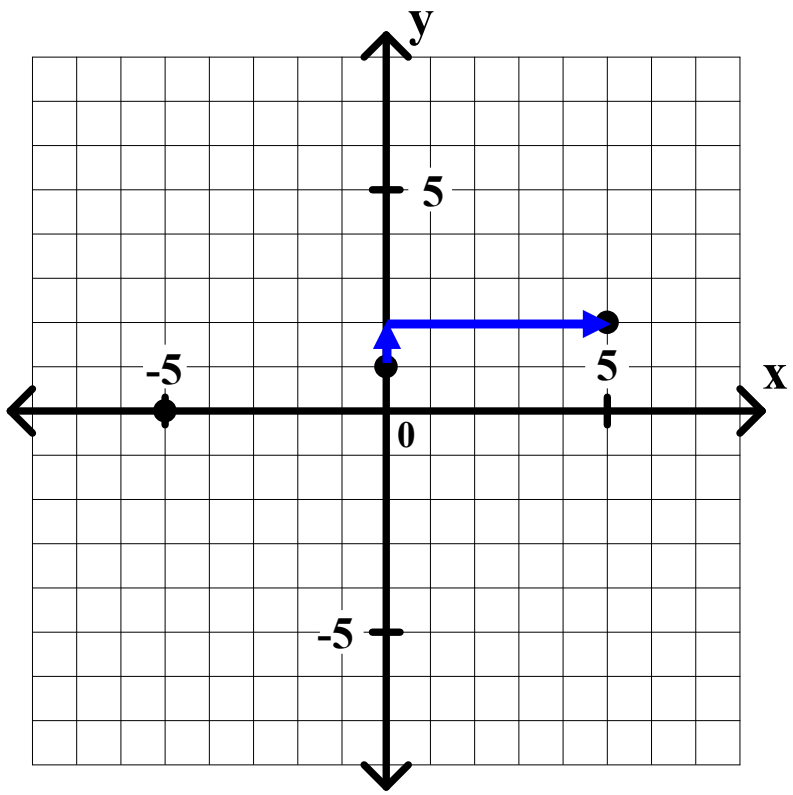

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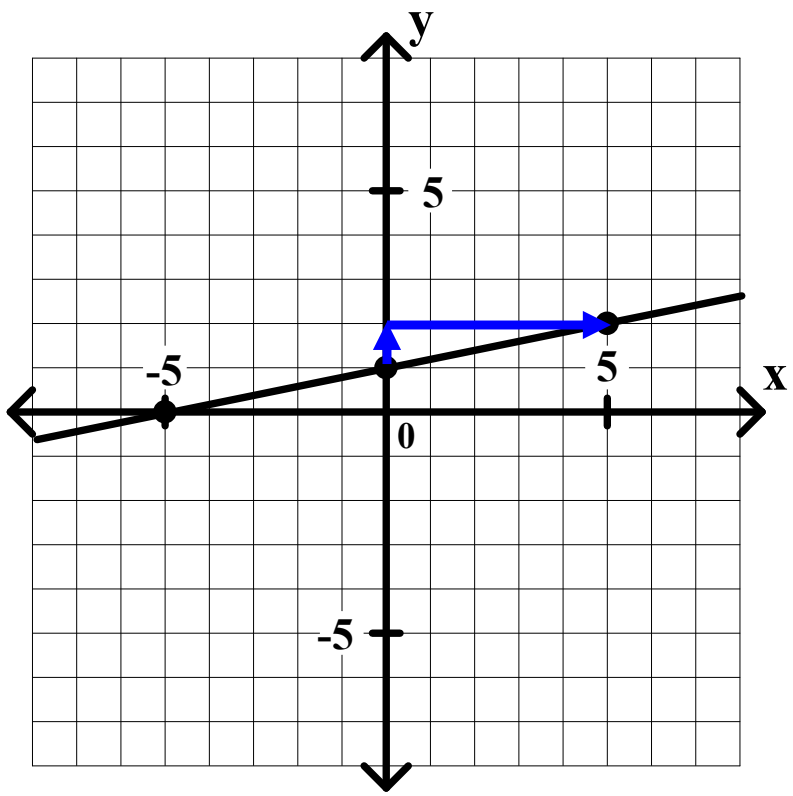

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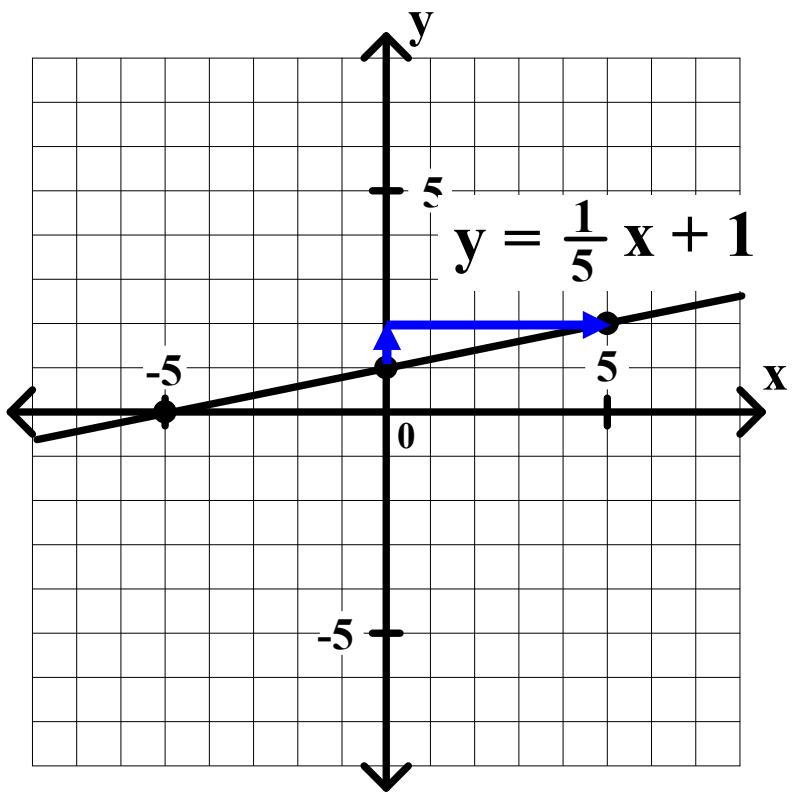

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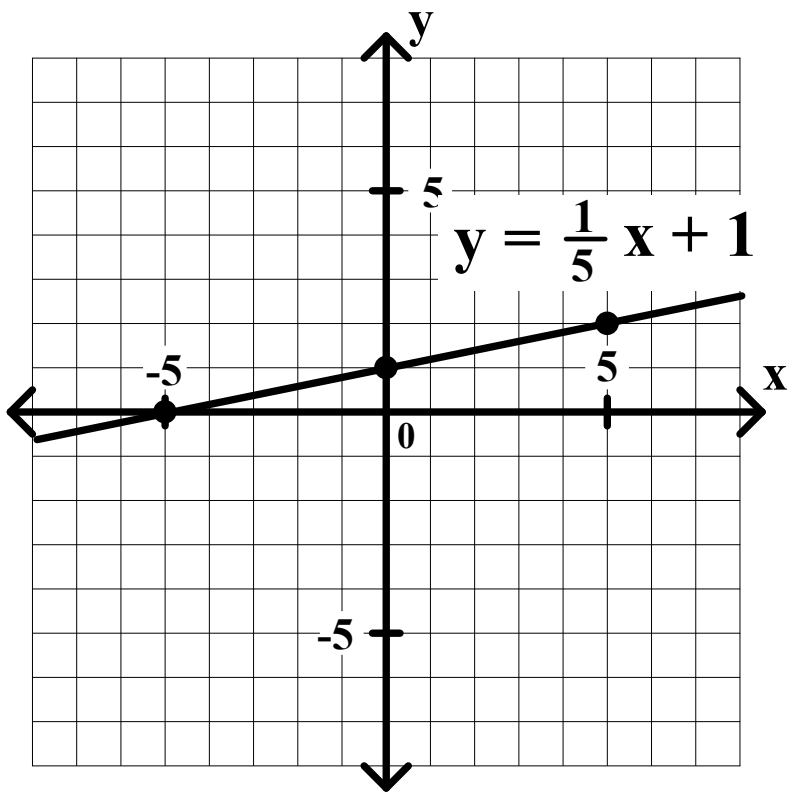

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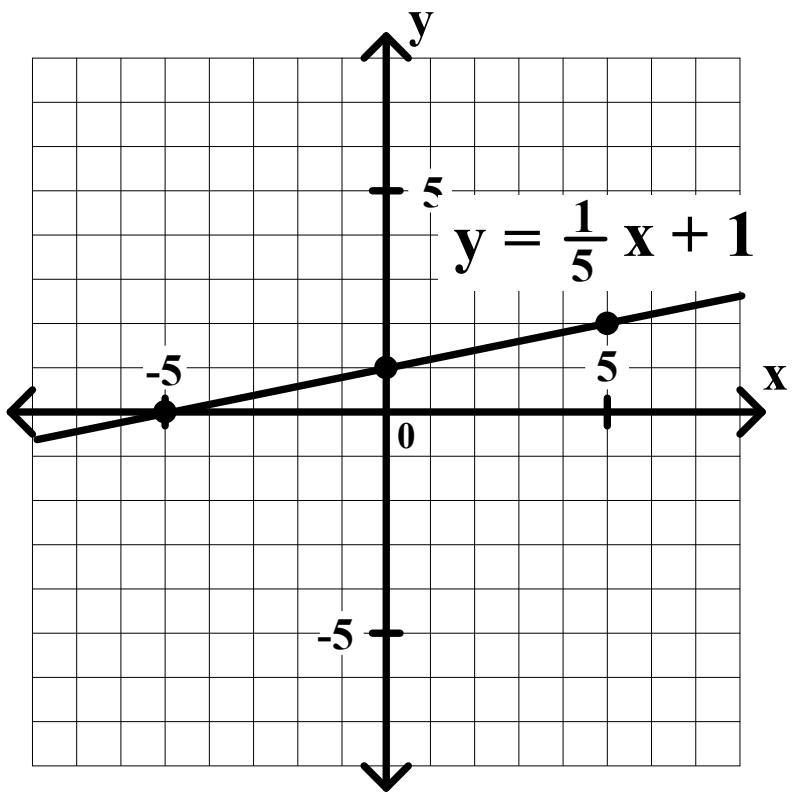

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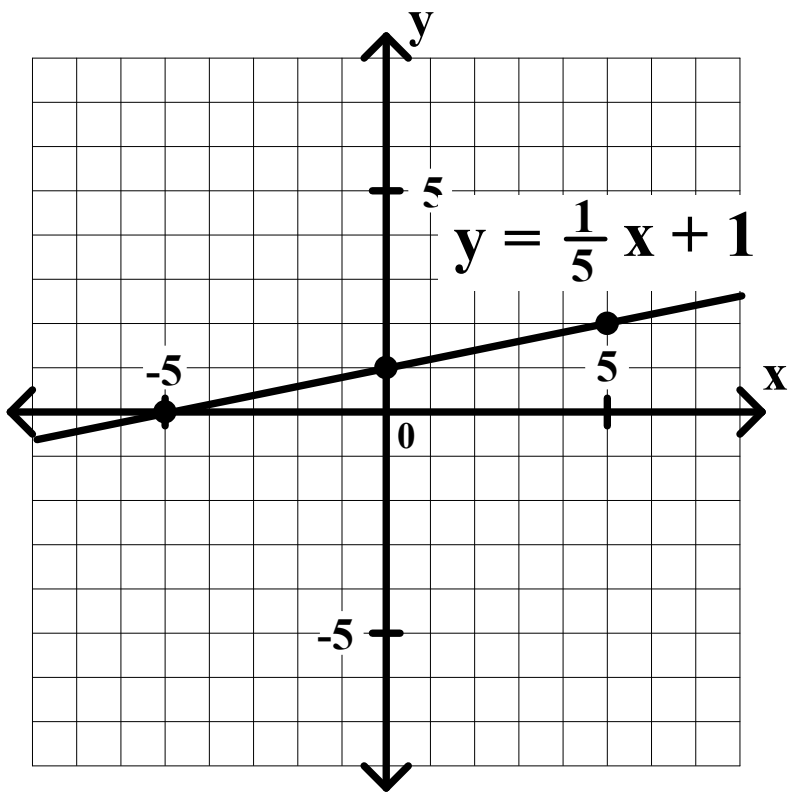

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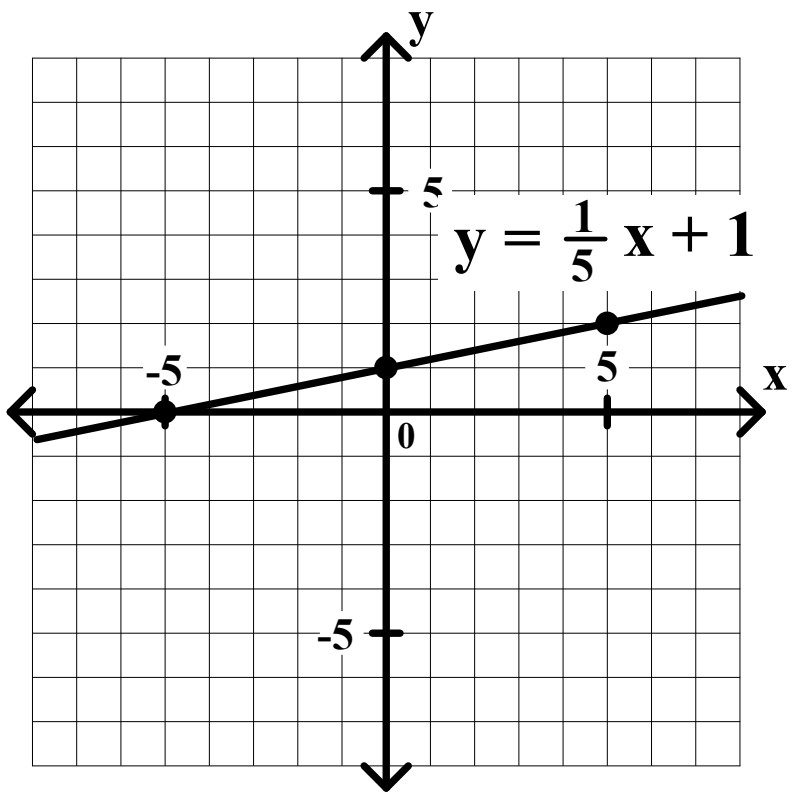

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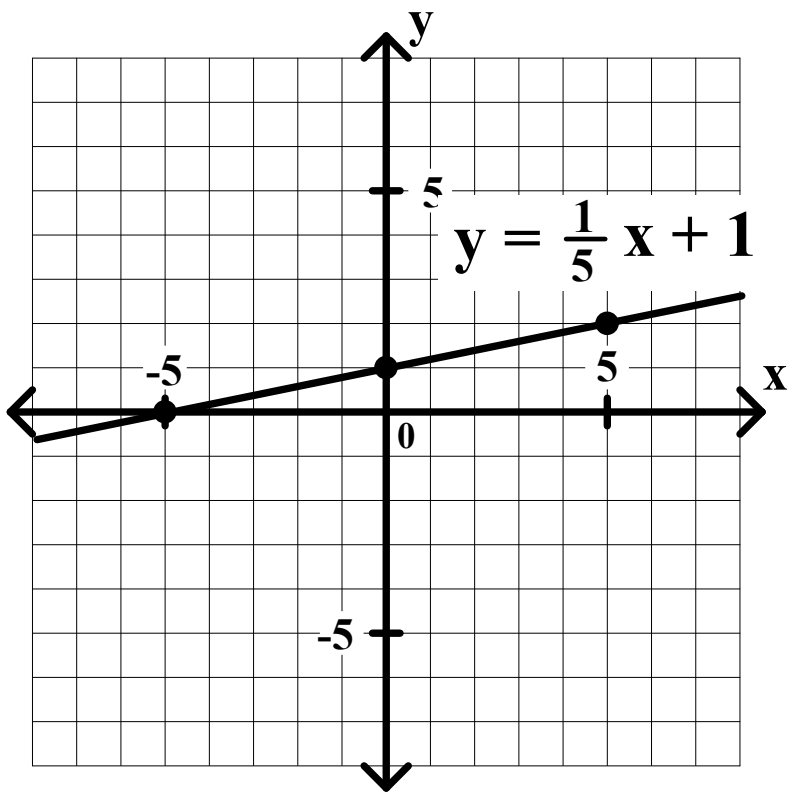

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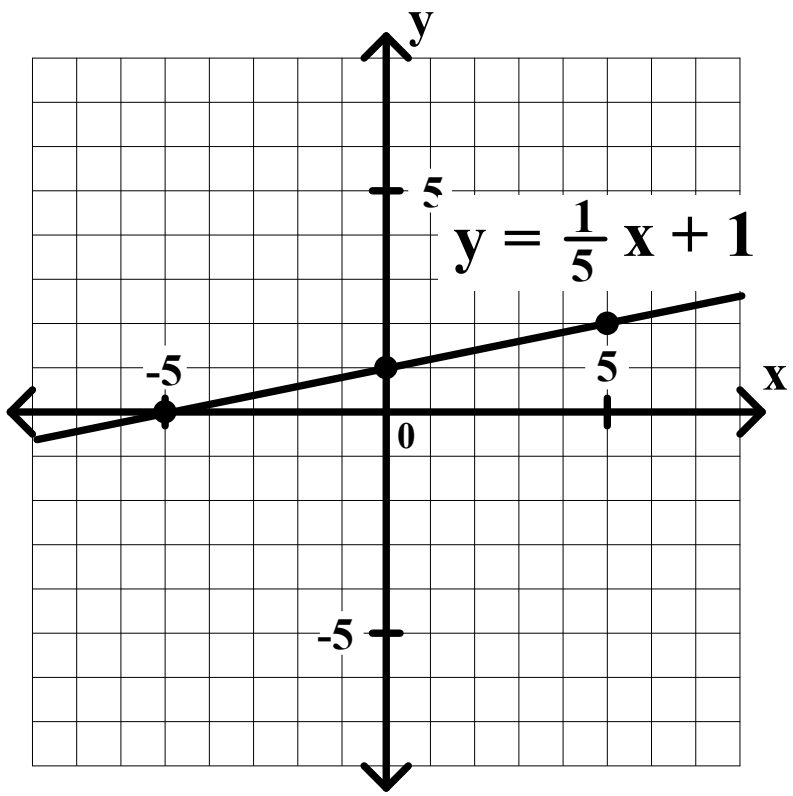

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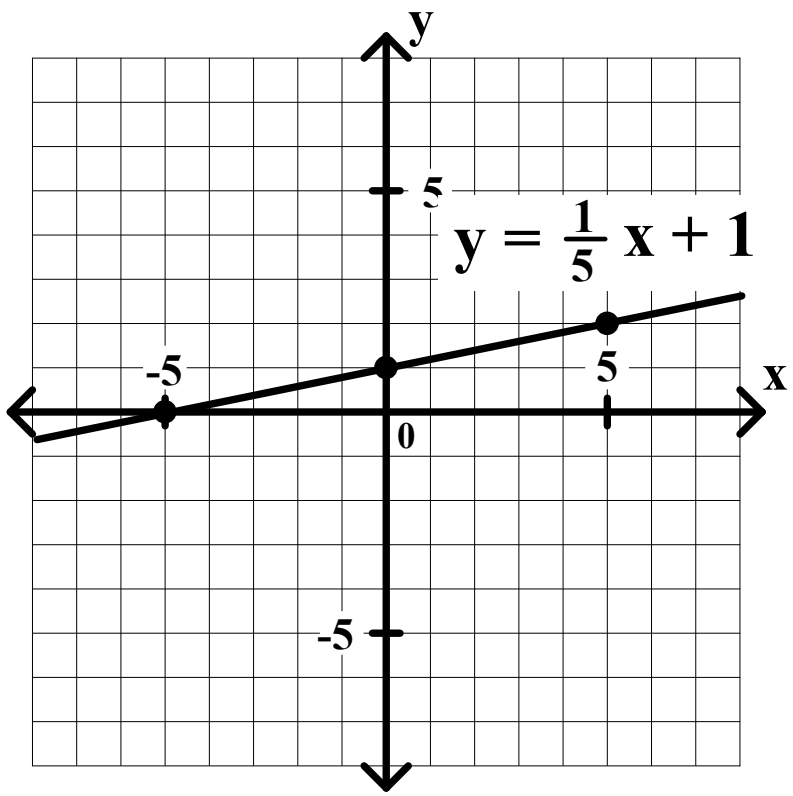

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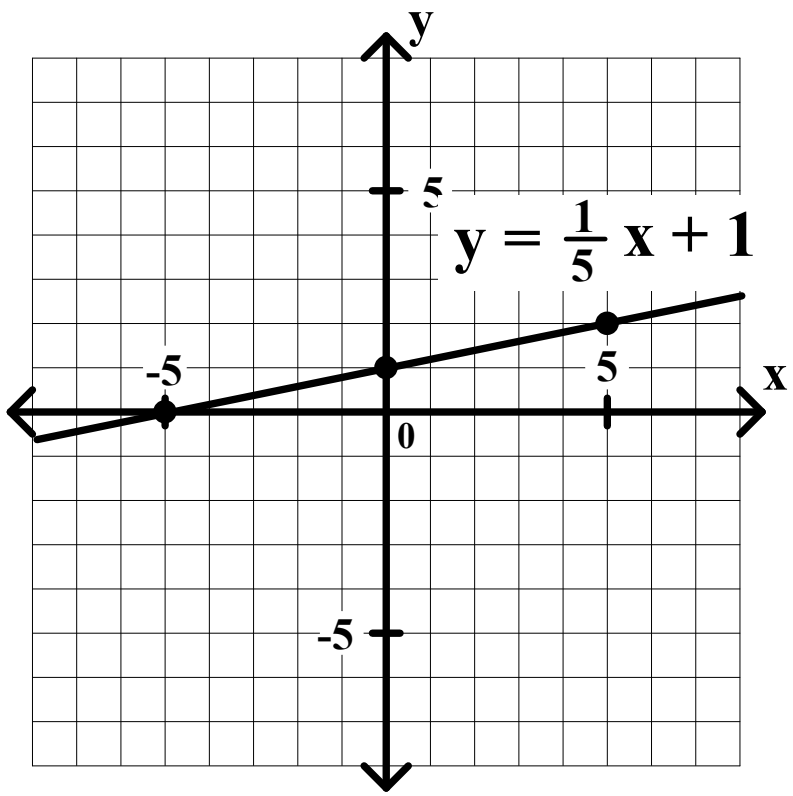

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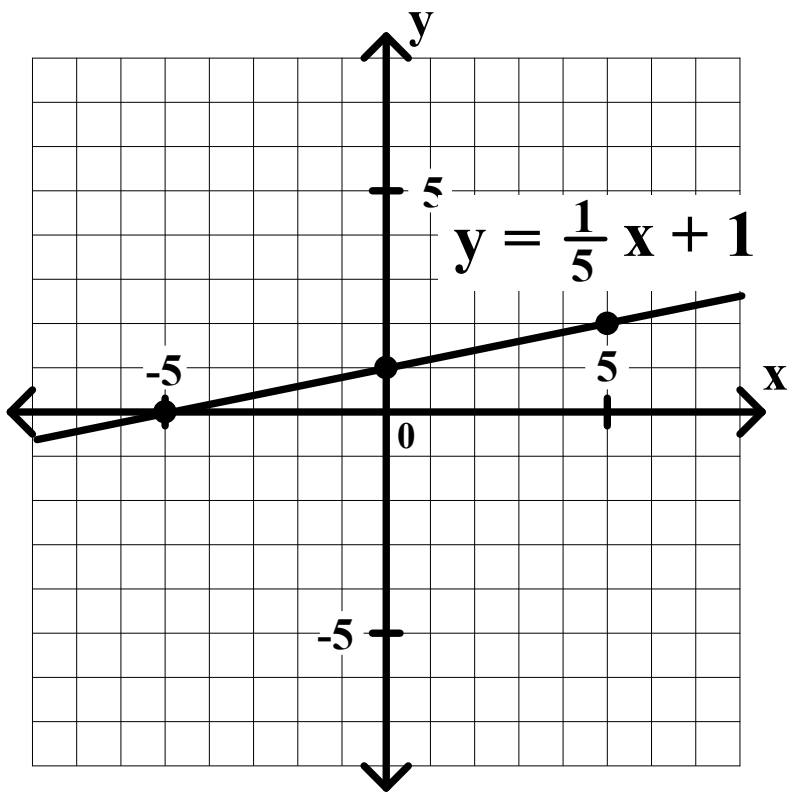

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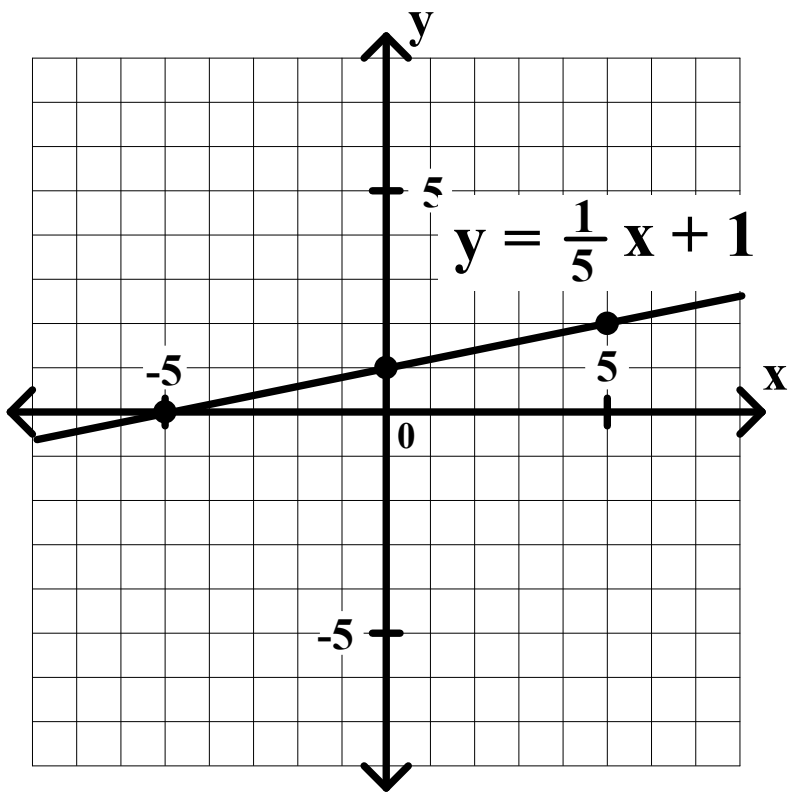

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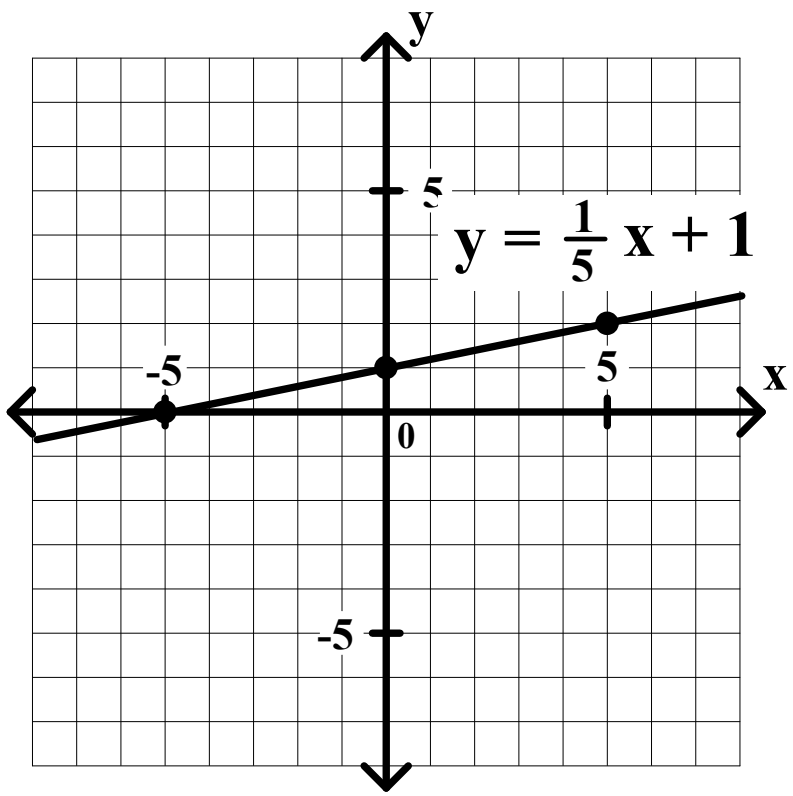

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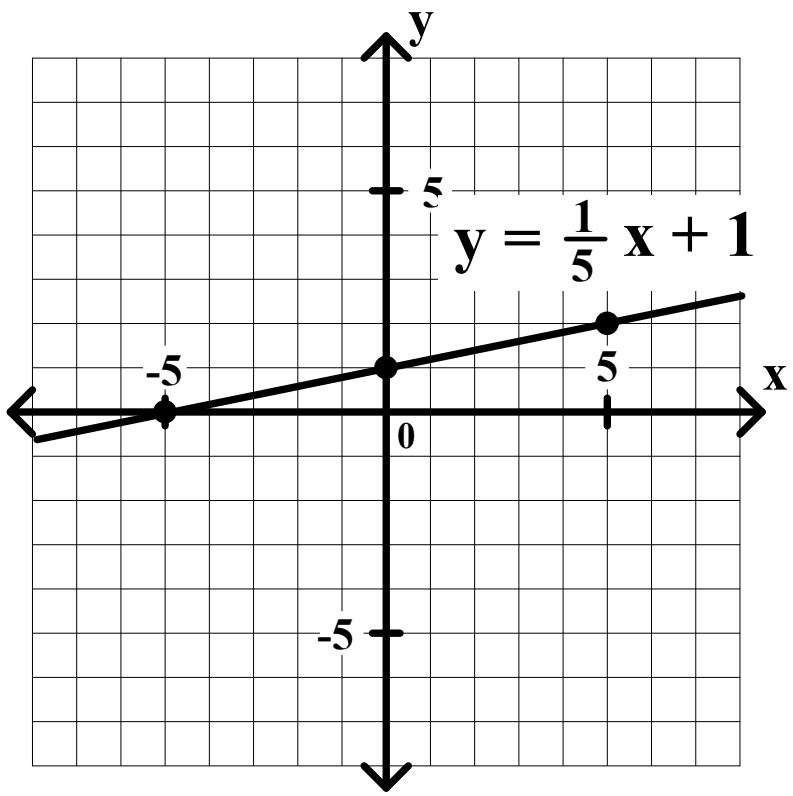

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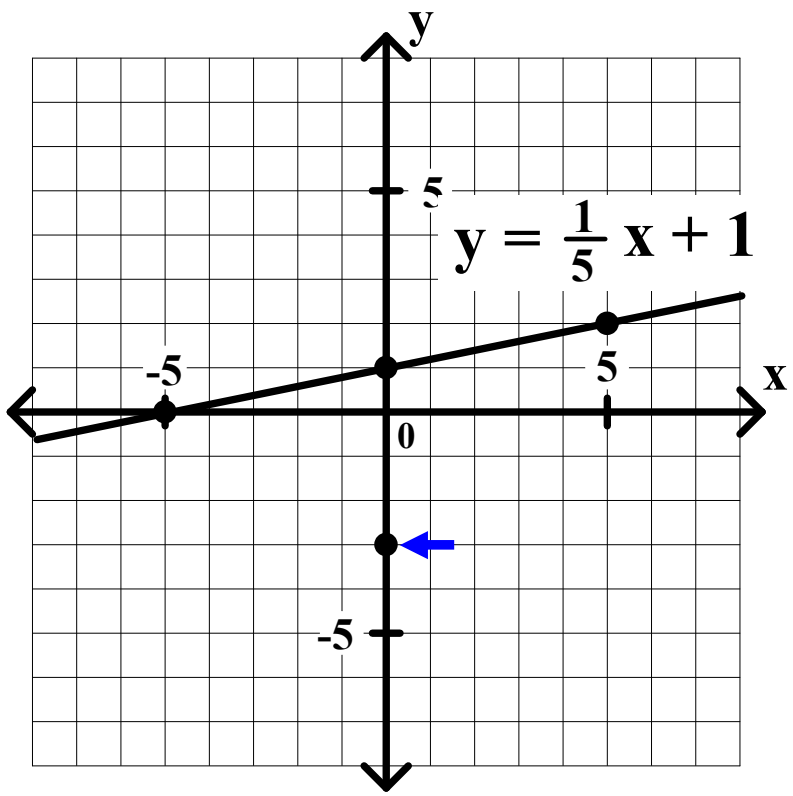

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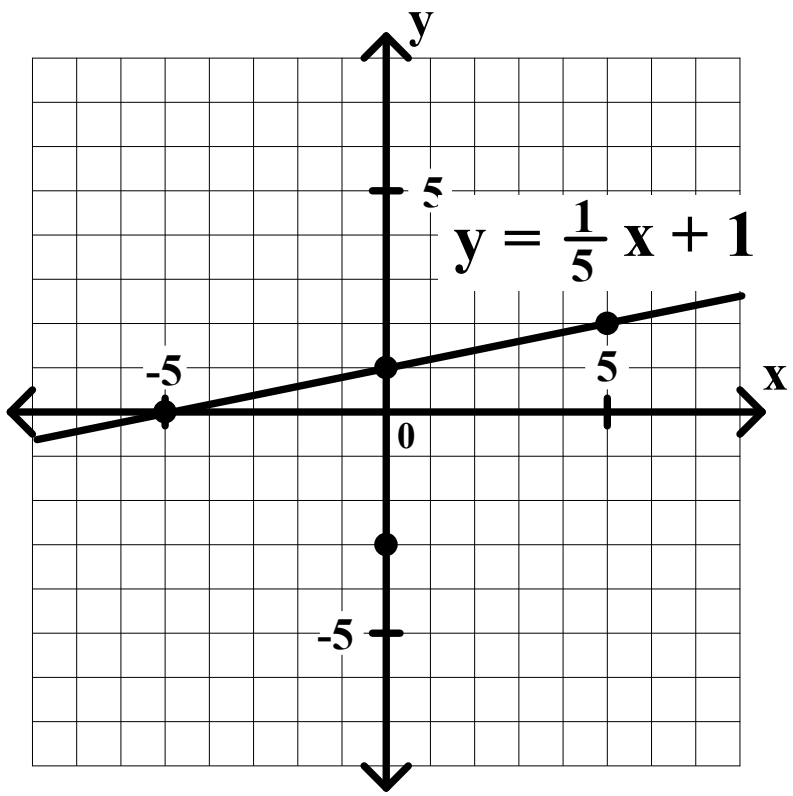

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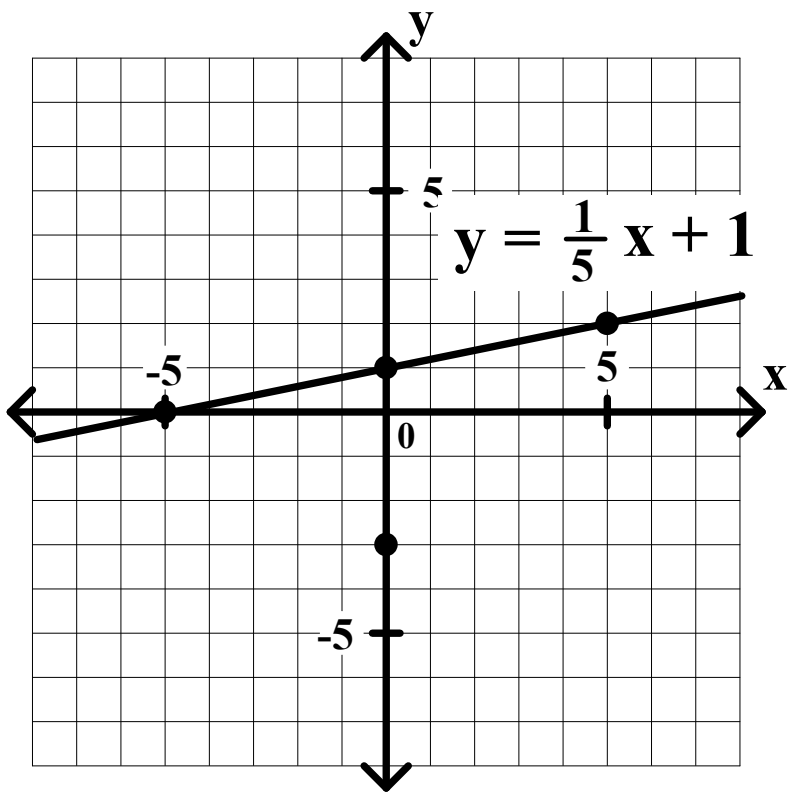

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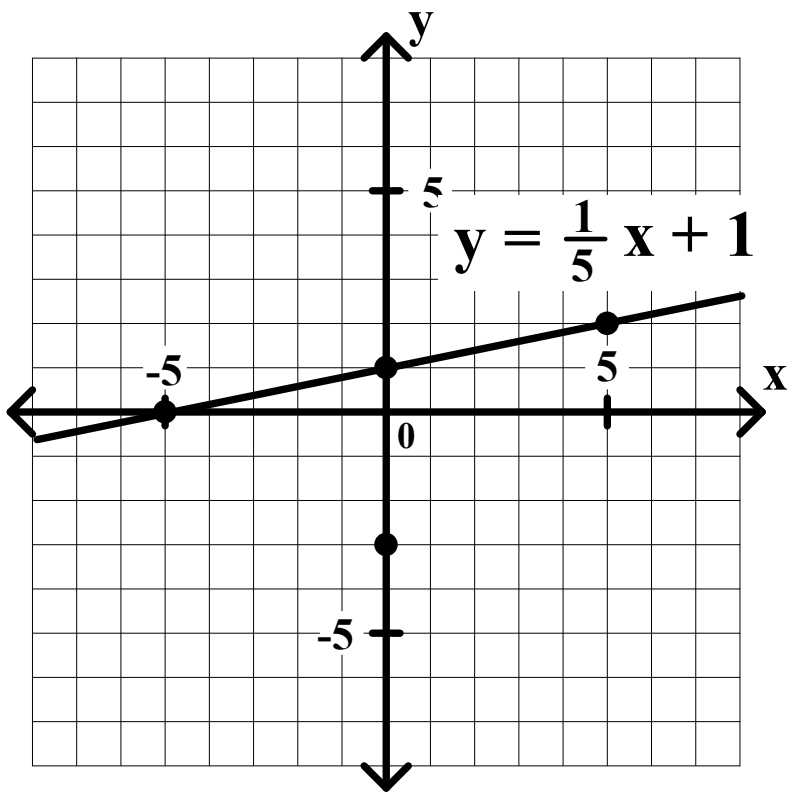

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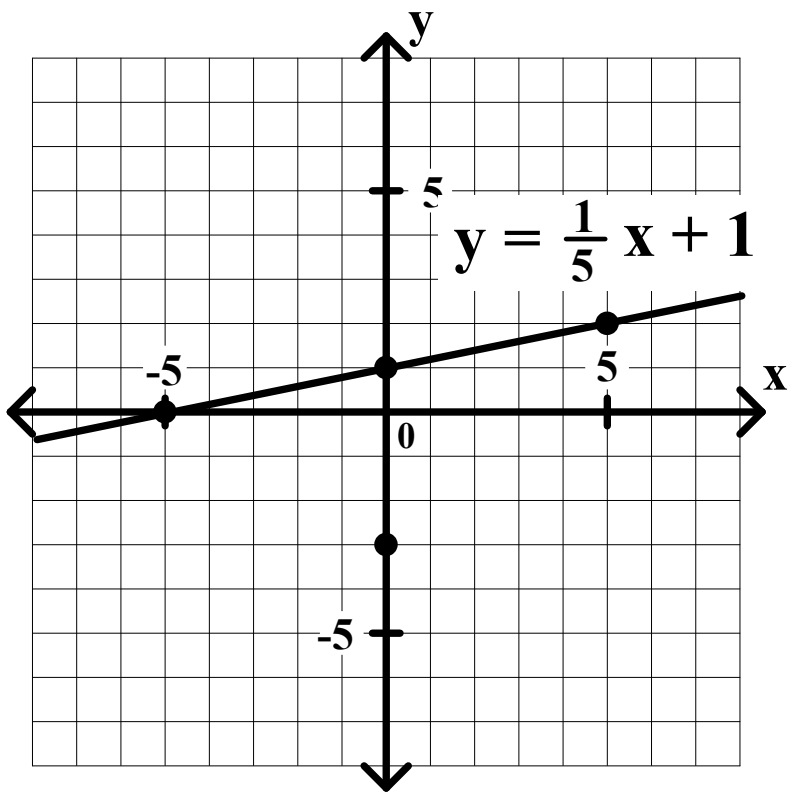

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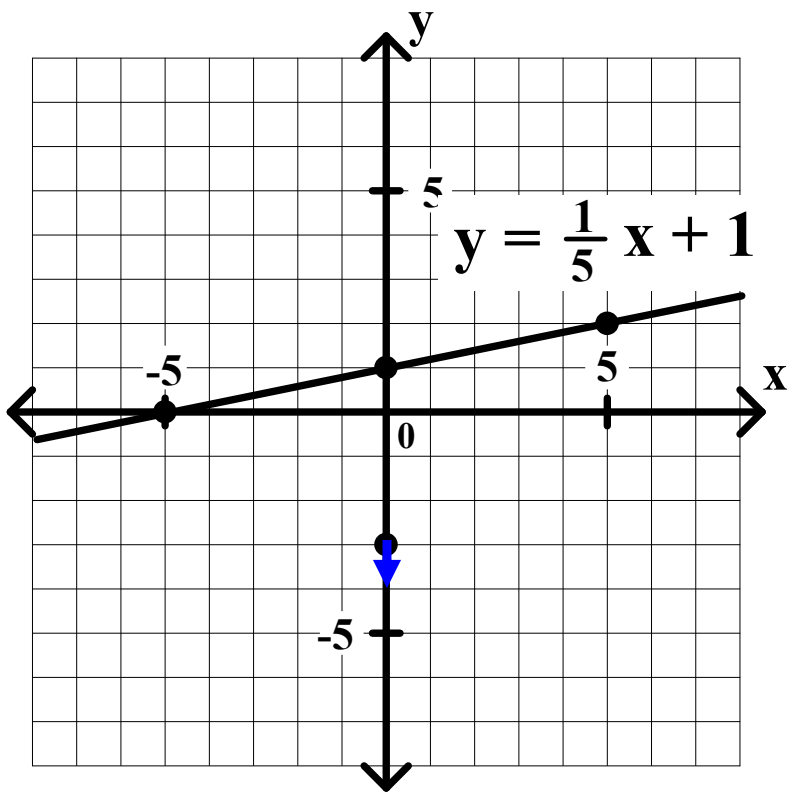

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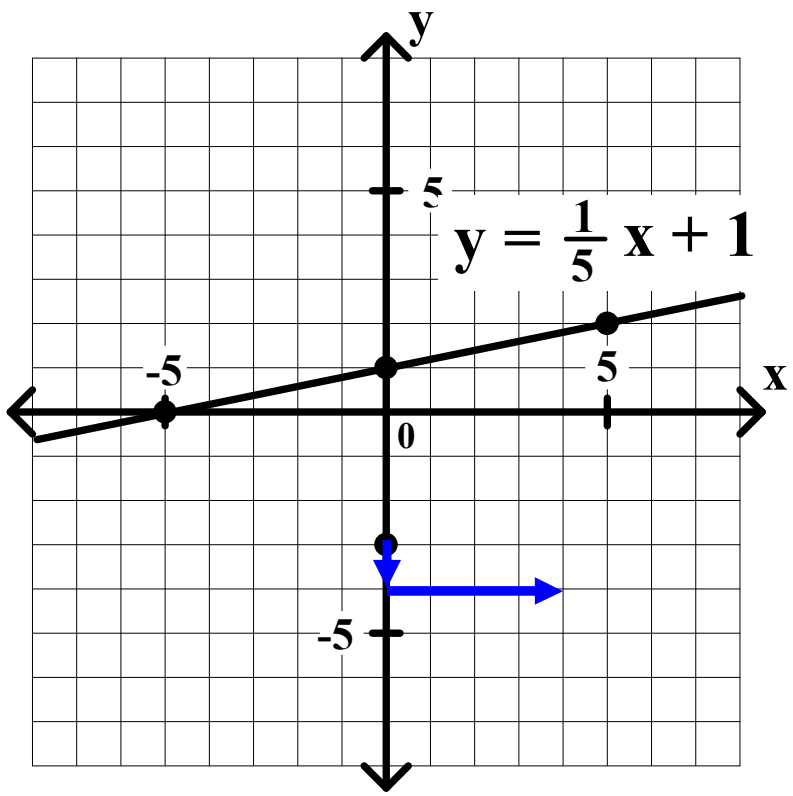

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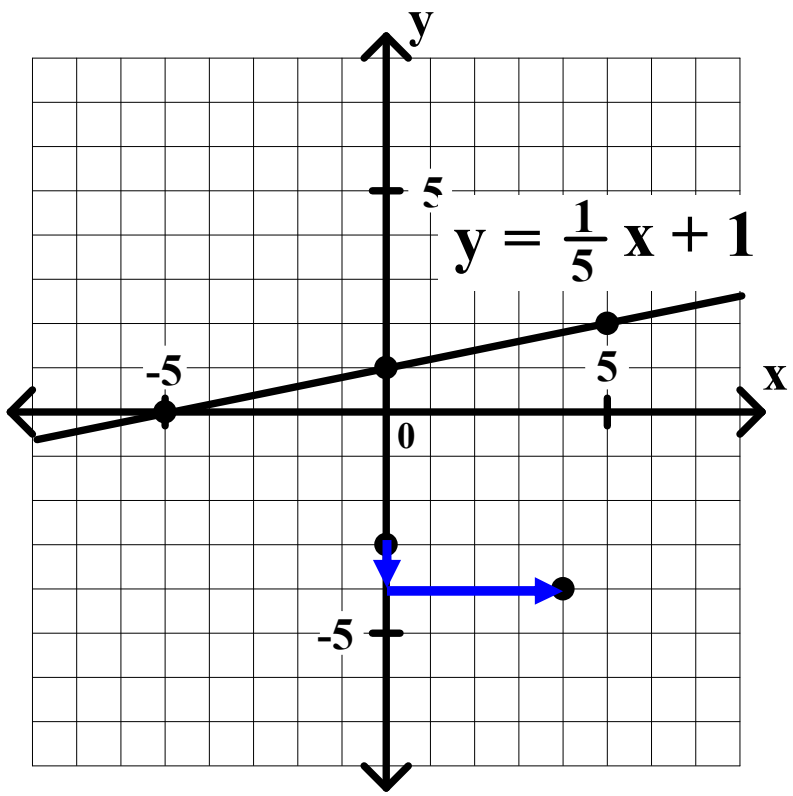

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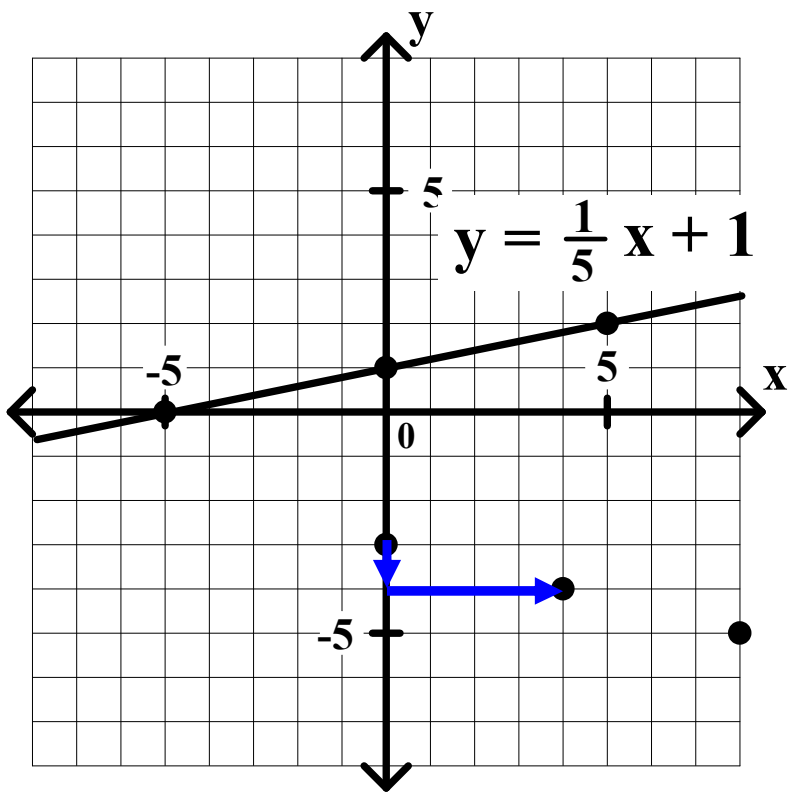

6. $x + 4y = -12$

$4y = -x - 12$

$y = \frac{-1}{4}x - 3$

slope y-intercept

$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{-1}{4}$

Use the y-intercept and the slope to graph the equation.

Algebra II Class Worksheet #1 Unit 2

Graph the equations.

5. $x - 5y = -5$

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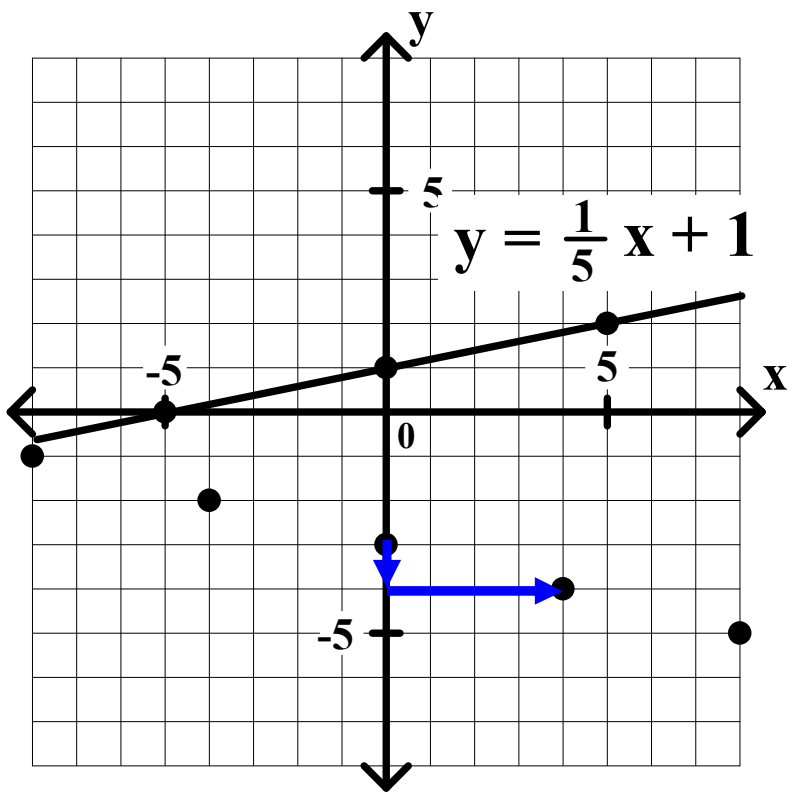

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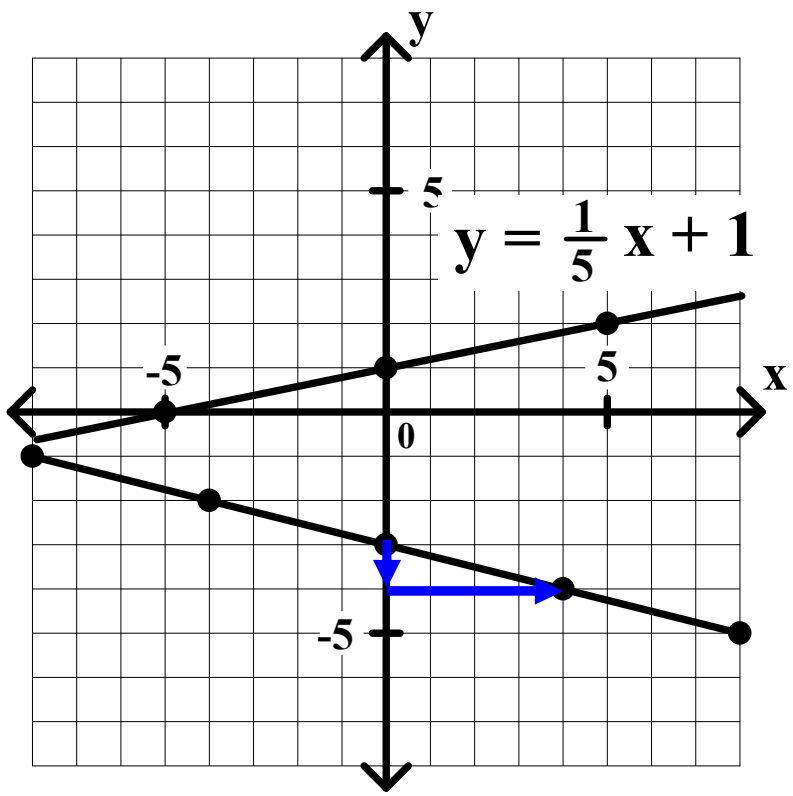

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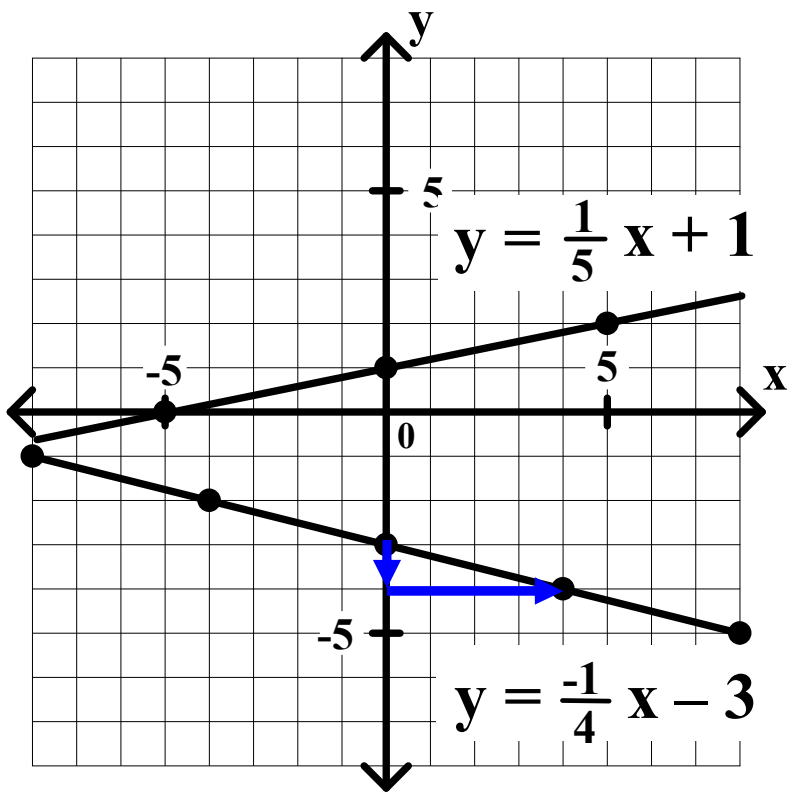

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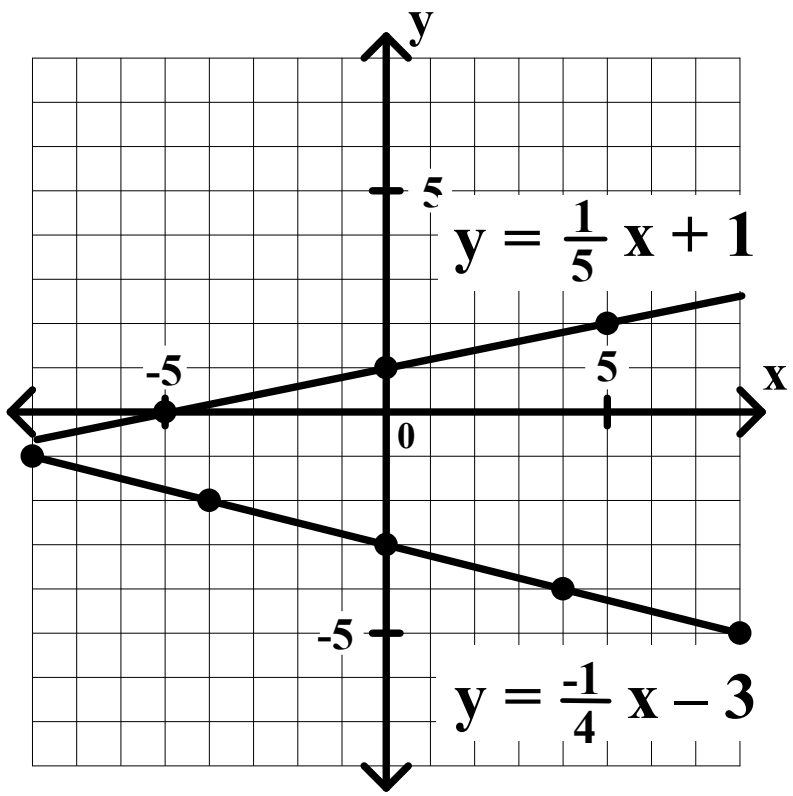

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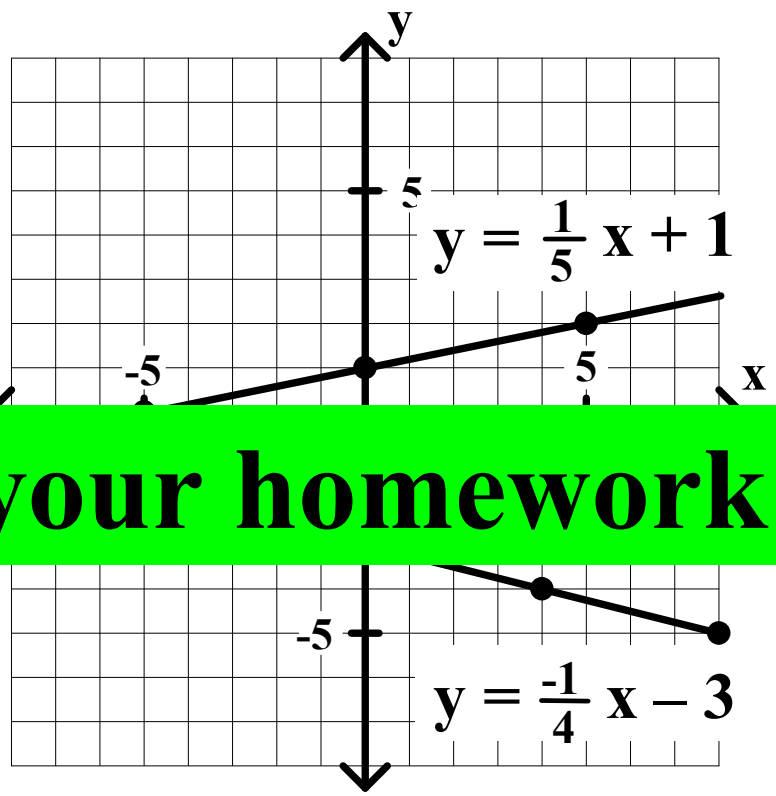

Good luck on your homework !!

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