

Algebra I Lesson #1 Unit 7
Class Worksheet #1
For Worksheets #1 - #5

Algebra I Unit 7 The Equation of a Line

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

Horizontal

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

Horizontal  **The x-axis or any line parallel to the x-axis is a horizontal line.**

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

Horizontal  **The x-axis or any line parallel to the x-axis is a horizontal line.**

Vertical

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

Horizontal  **The x-axis or any line parallel to the x-axis is a horizontal line.**

Vertical  **The y-axis or any line parallel to the y-axis is a vertical line.**

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.



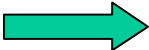
Horizontal  **The x-axis or any line parallel to the x-axis is a horizontal line.**

Vertical  **The y-axis or any line parallel to the y-axis is a vertical line.**

Oblique



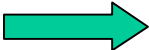
Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

- Horizontal**  **The x-axis or any line parallel to the x-axis is a horizontal line.**
- Vertical**  **The y-axis or any line parallel to the y-axis is a vertical line.**
- Oblique**  **Any line that is neither horizontal nor vertical is an oblique line.**

Algebra I Unit 7 The Equation of a Line

There are three types of lines to consider.

- Horizontal**  **The x-axis or any line parallel to the x-axis is a horizontal line.**
- Vertical**  **The y-axis or any line parallel to the y-axis is a vertical line.**
- Oblique**  **Any line that is neither horizontal nor vertical is an oblique line.**

You will be responsible for understanding how to find the equation for each type of line.

Algebra I Unit 7 The Equation of a Line

Horizontal Lines

Algebra I Unit 7 The Equation of a Line

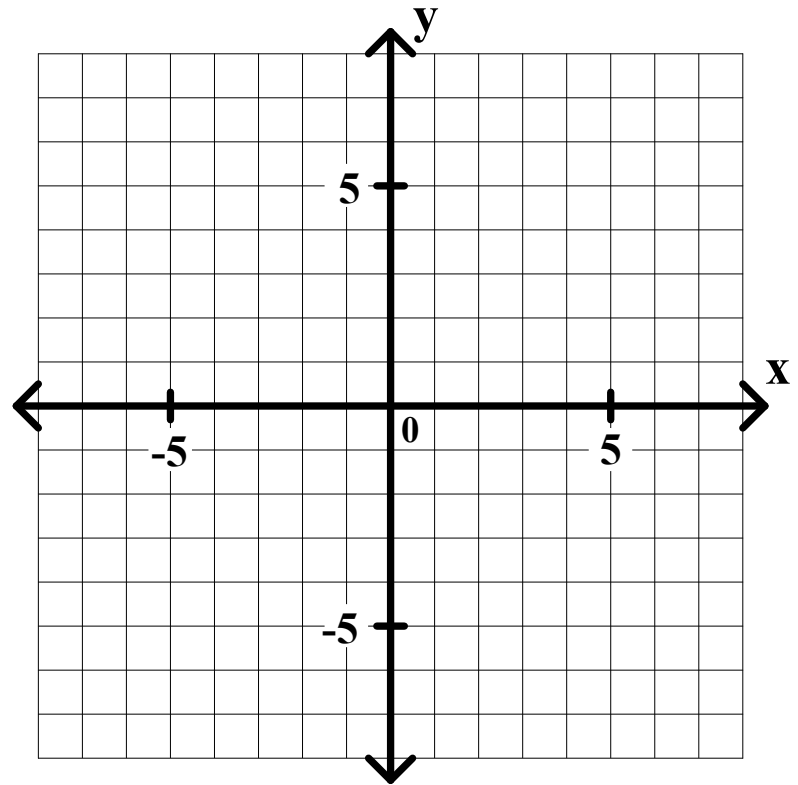
Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Algebra I Unit 7 The Equation of a Line

Horizontal Lines

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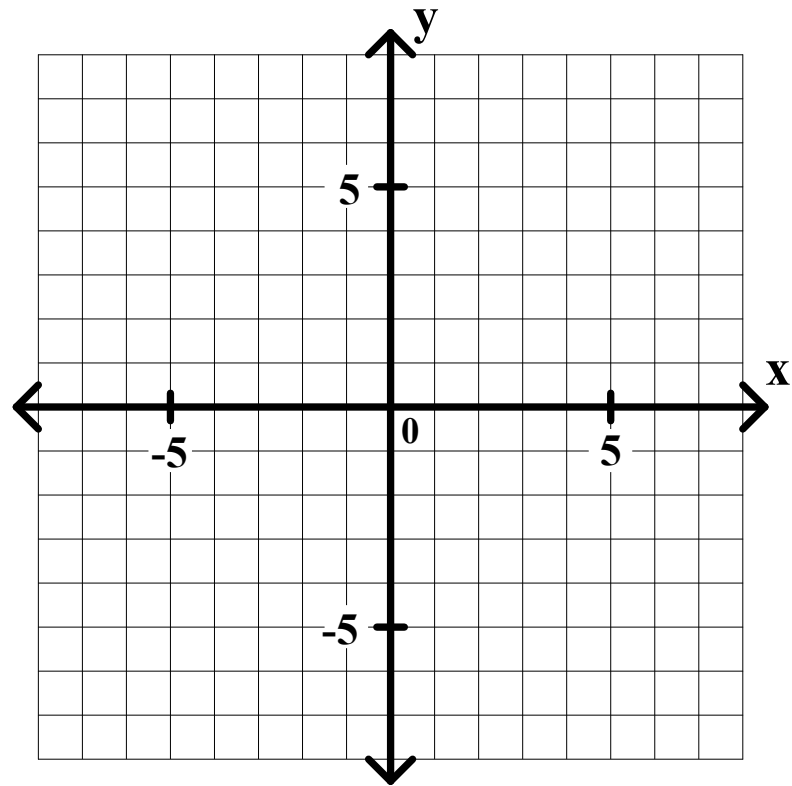


Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.

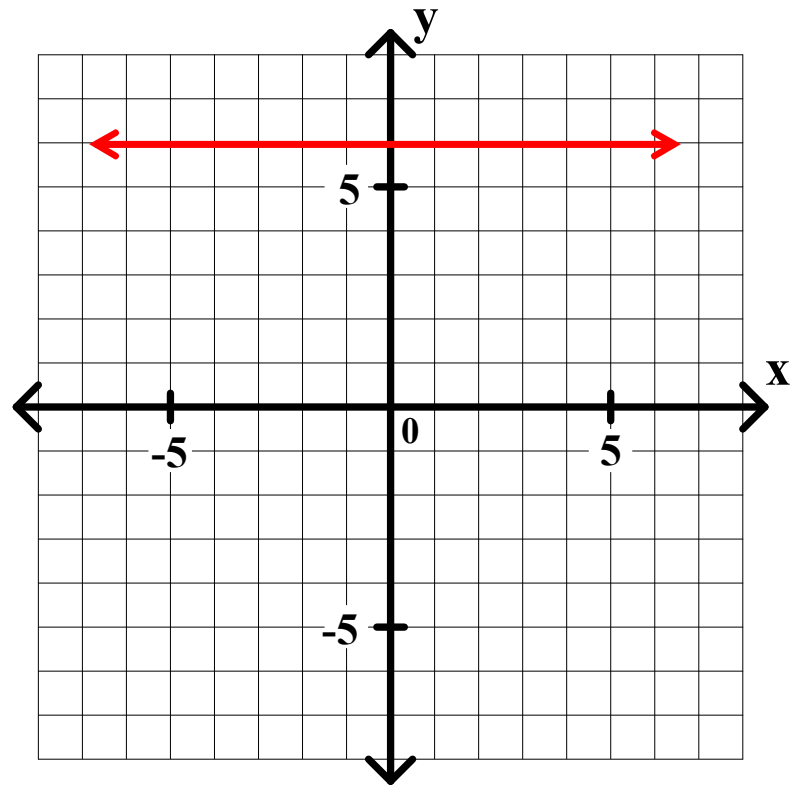


Algebra I Unit 7 The Equation of a Line

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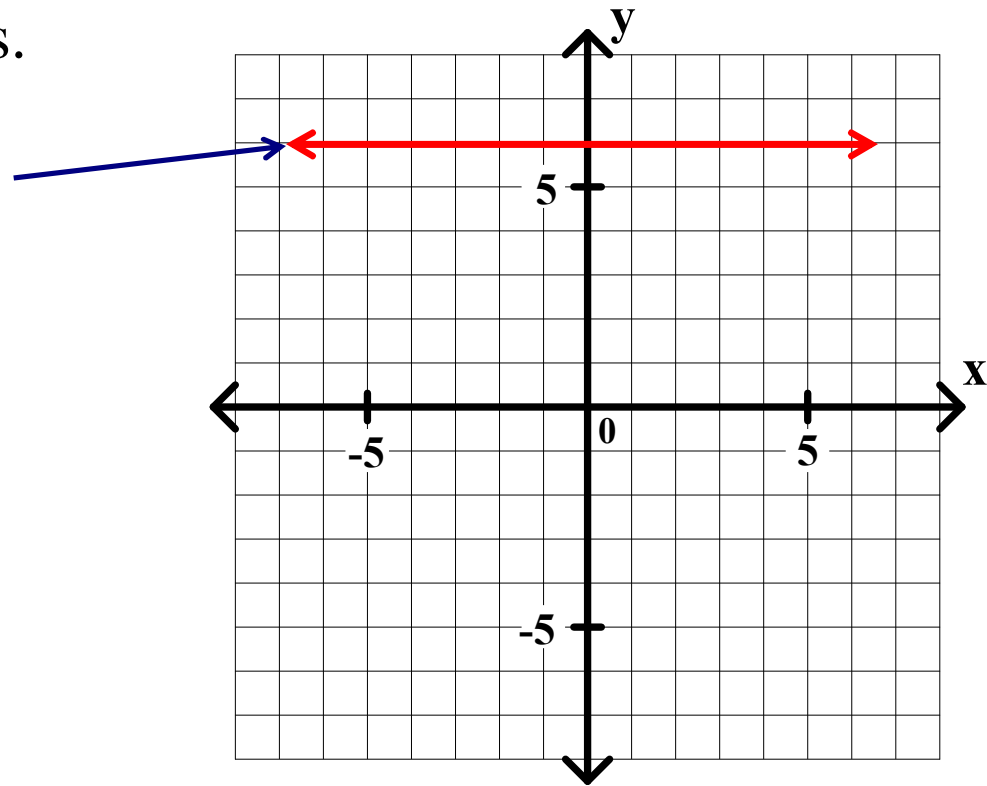
Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The **x-axis** or any line parallel to the **x-axis** is a horizontal line.

Here are some examples.

equation:



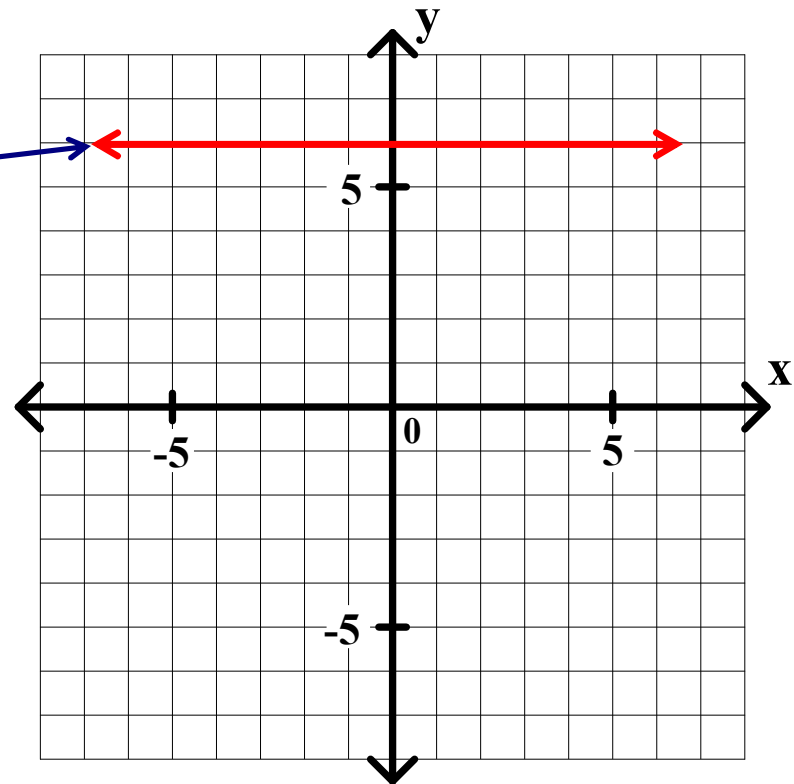
Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.

equation: $y = 6$



Algebra I Unit 7 The Equation of a Line

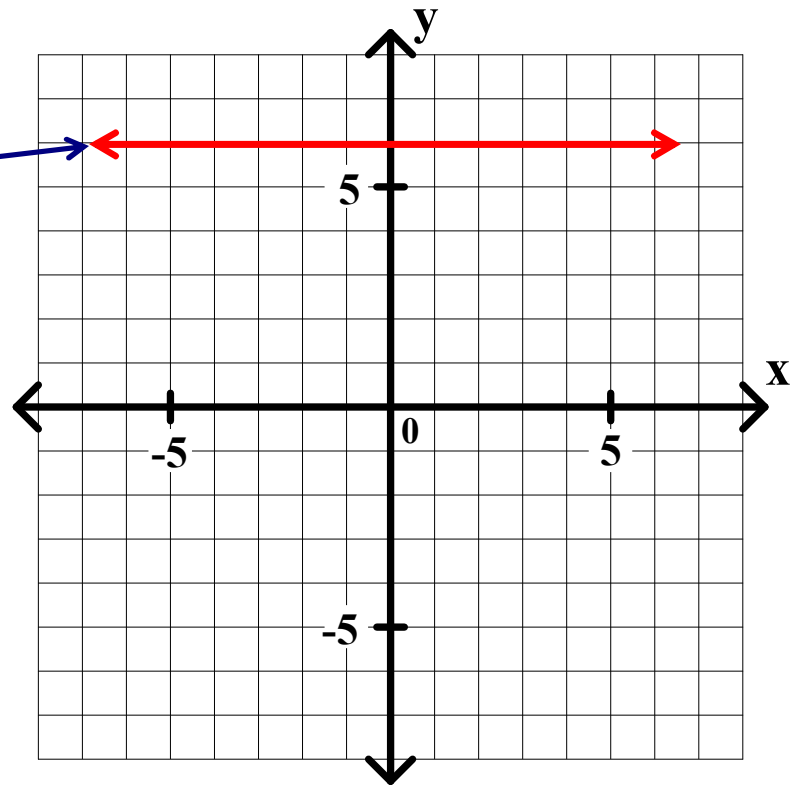
Horizontal Lines

The **x-axis** or any line parallel to the **x-axis** is a horizontal line.

Here are some examples.

equation: $y = 6$

Every point on this line has a y-coordinate equal to 6 !!!



Algebra I Unit 7 The Equation of a Line

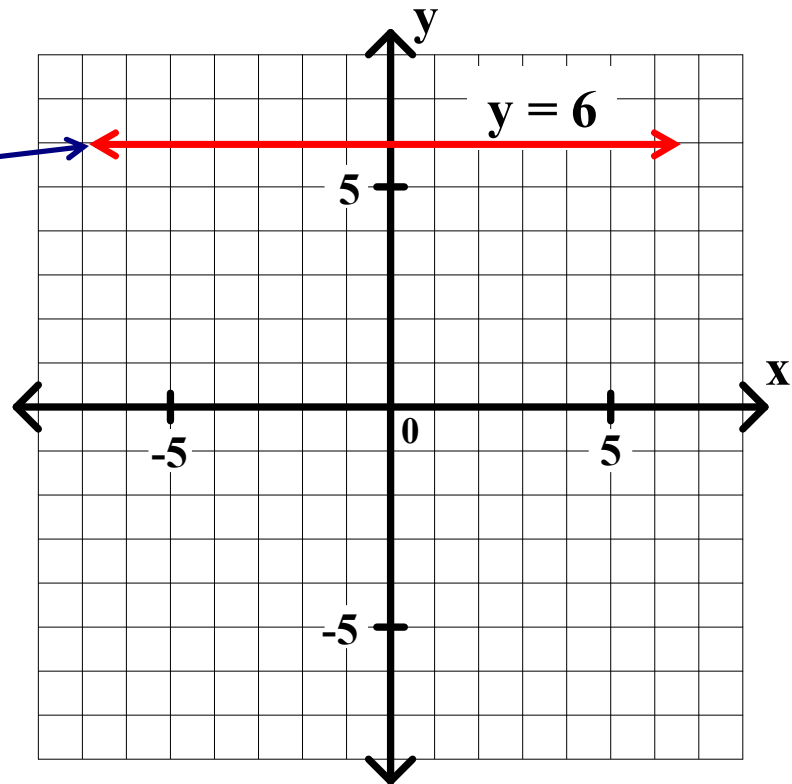
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The x-axis or any line parallel to the x-axis is a horizontal line.

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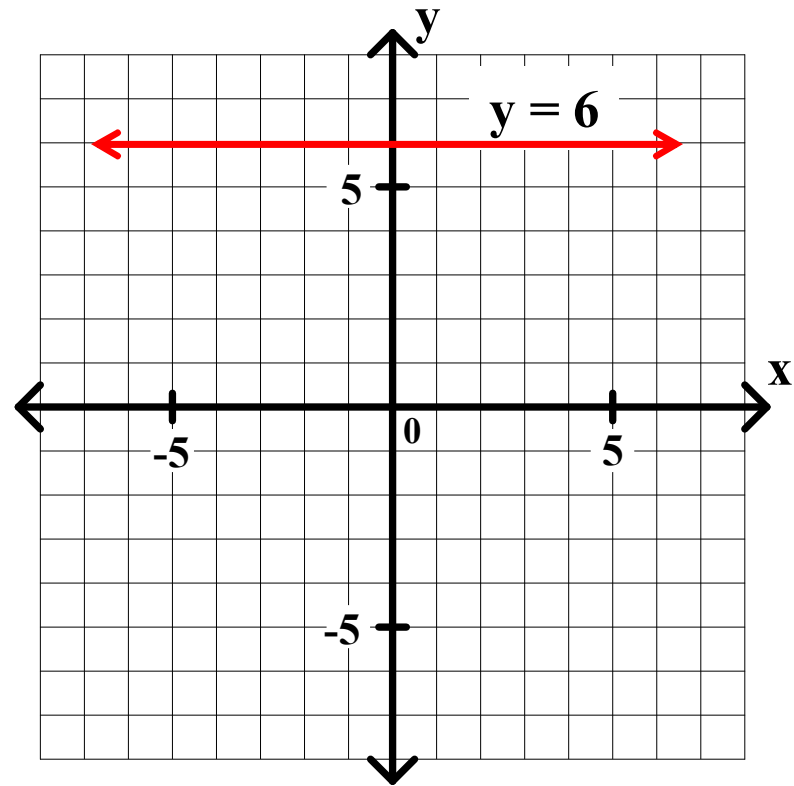


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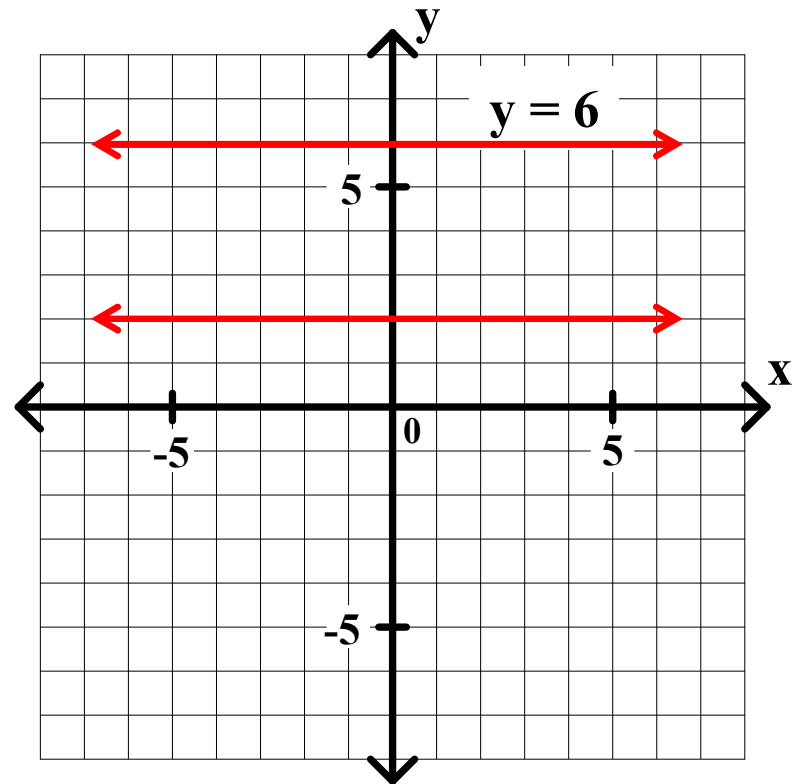


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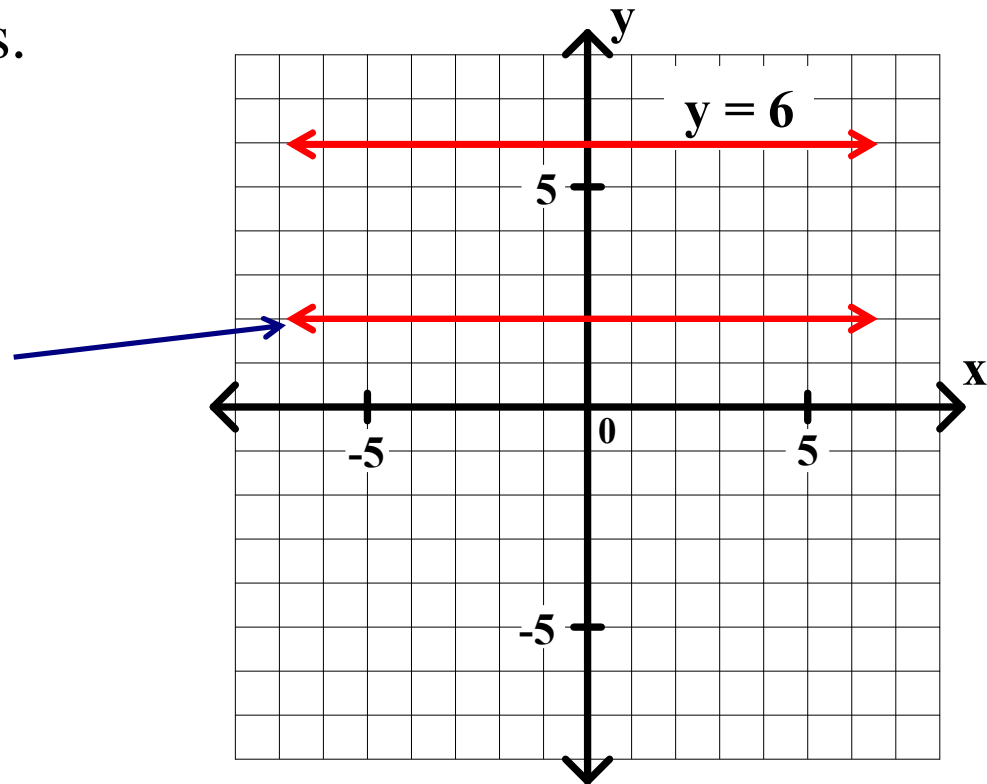
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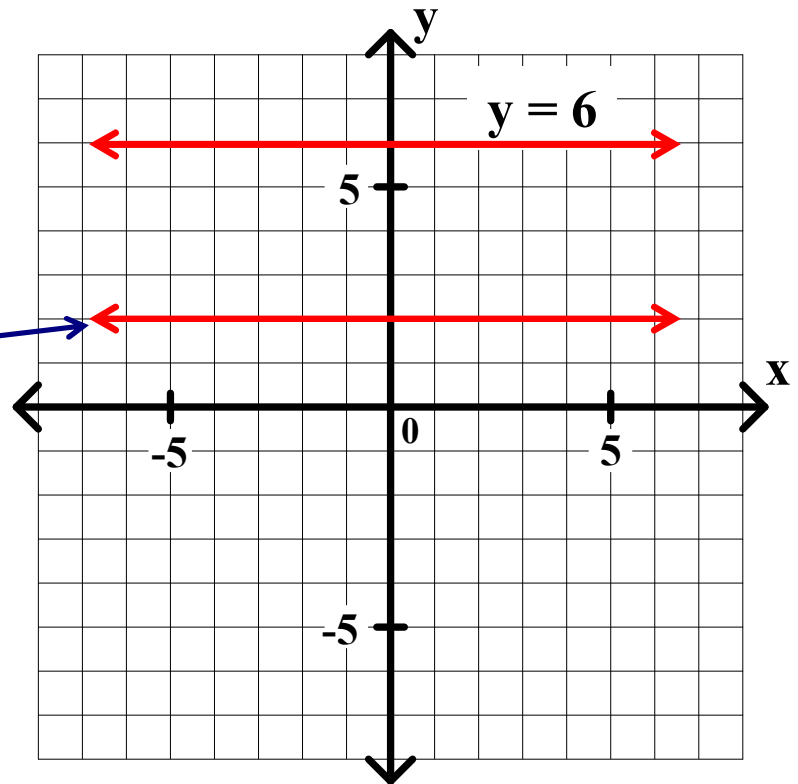
Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The **x-axis** or any line parallel to the **x-axis** is a horizontal line.

Here are some examples.

equation: $y = 2$



Algebra I Unit 7 The Equation of a Line

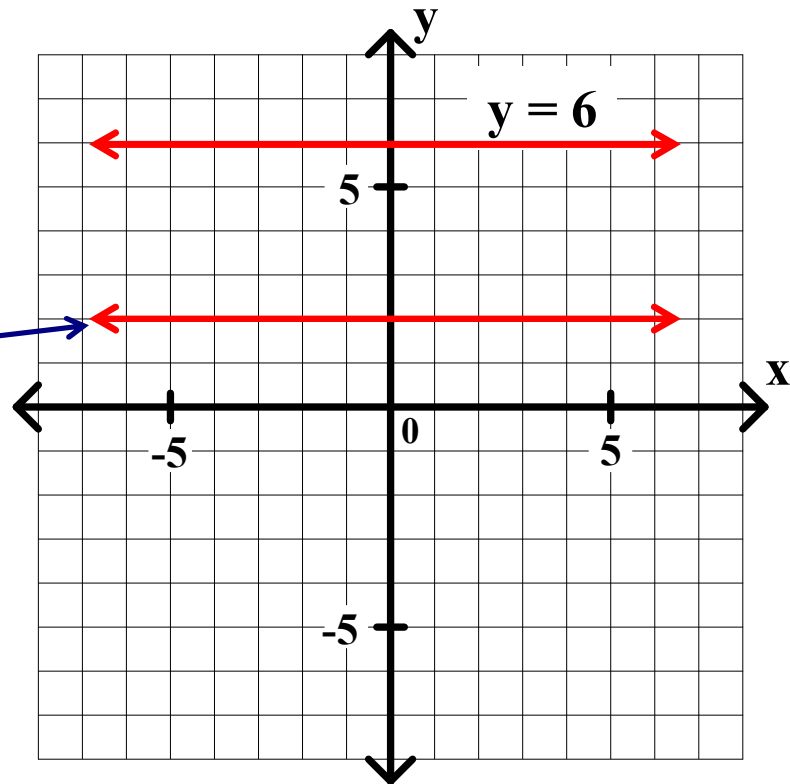
Horizontal Lines

The **x-axis** or any line parallel to the **x-axis** is a horizontal line.

Here are some examples.

equation: $y = 2$

Every point on this line has a y-coordinate equal to 2 !!!



Algebra I Unit 7 The Equation of a Line

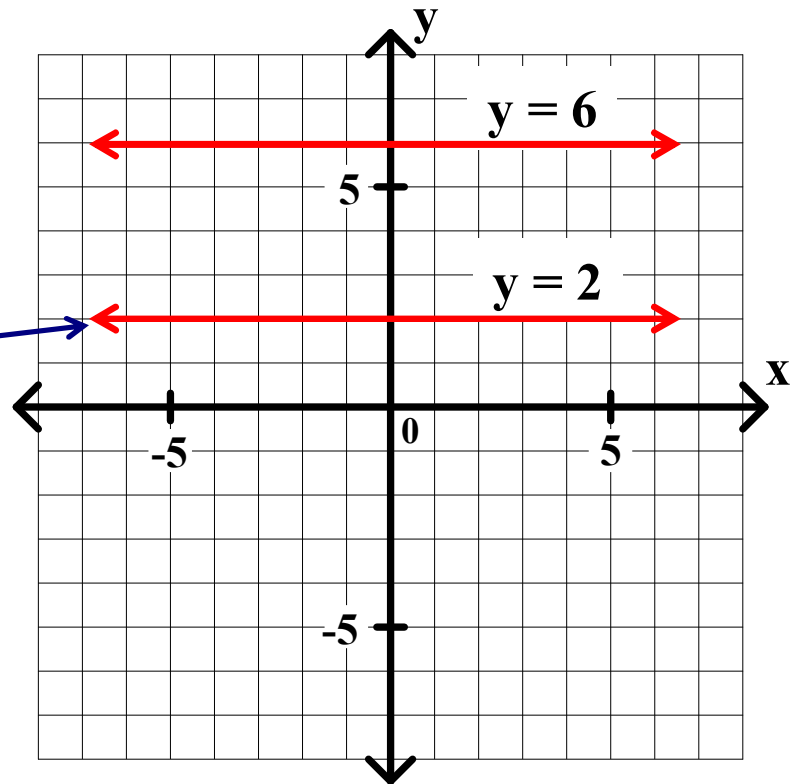
Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.

equation: $y = 2$

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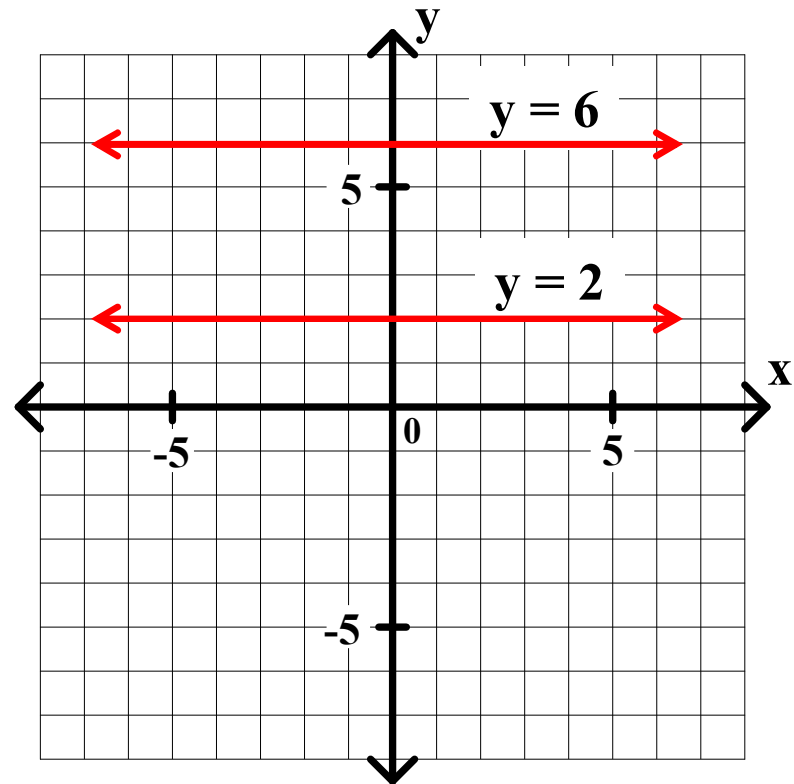


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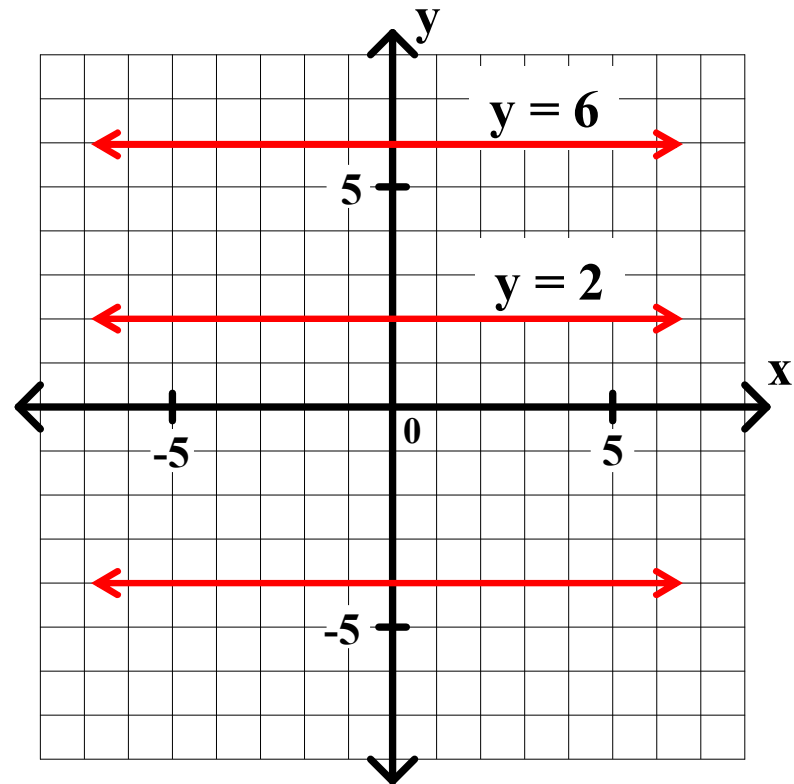


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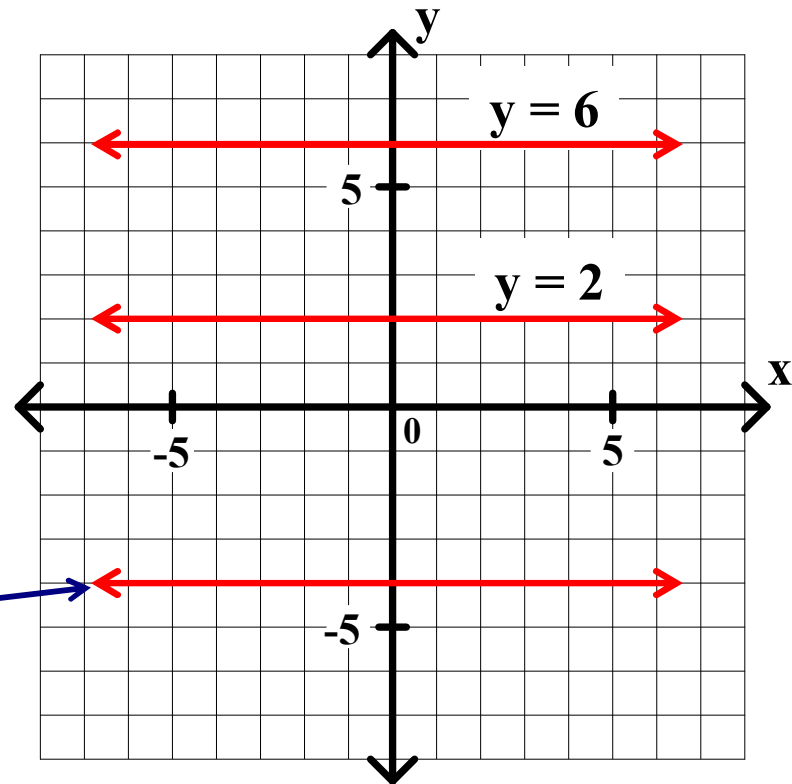
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equation:

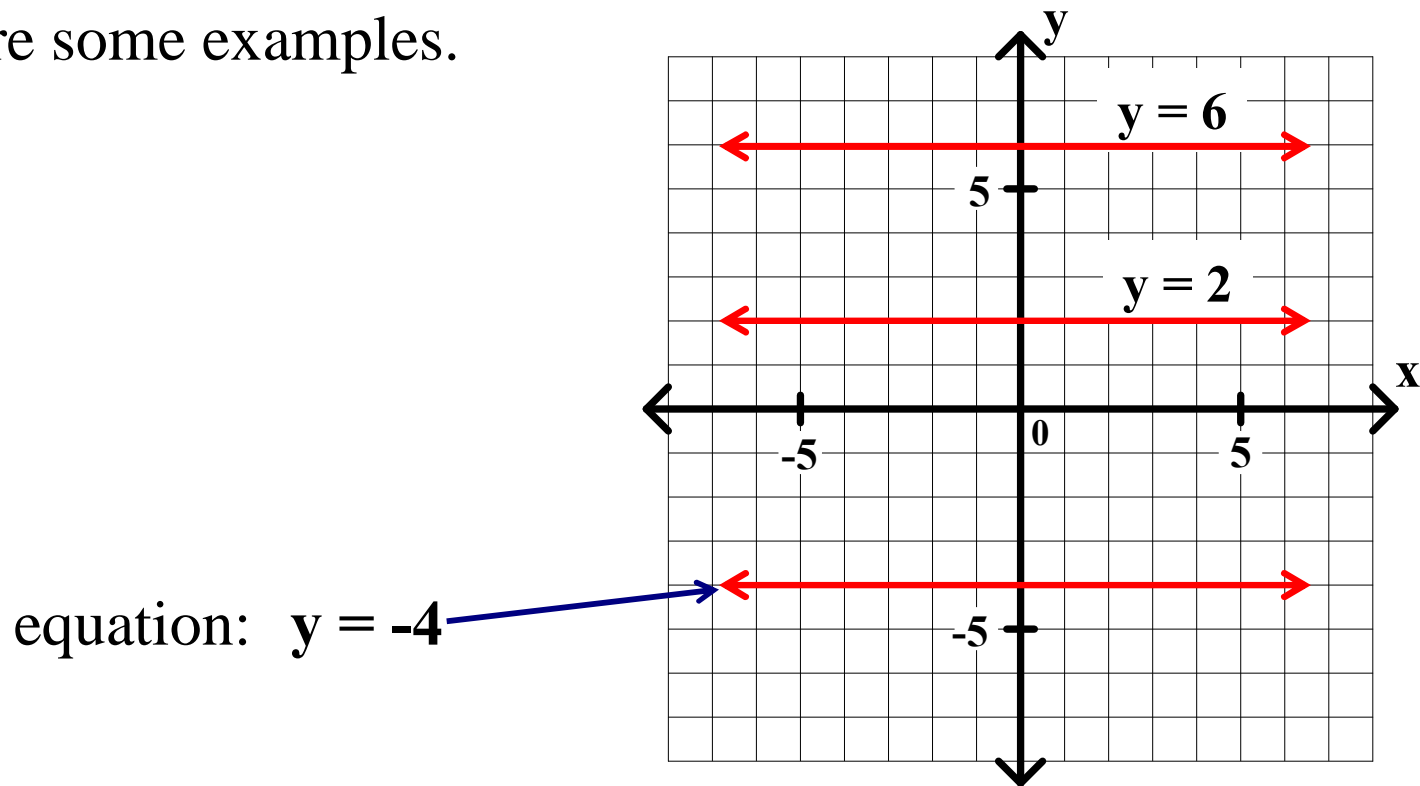


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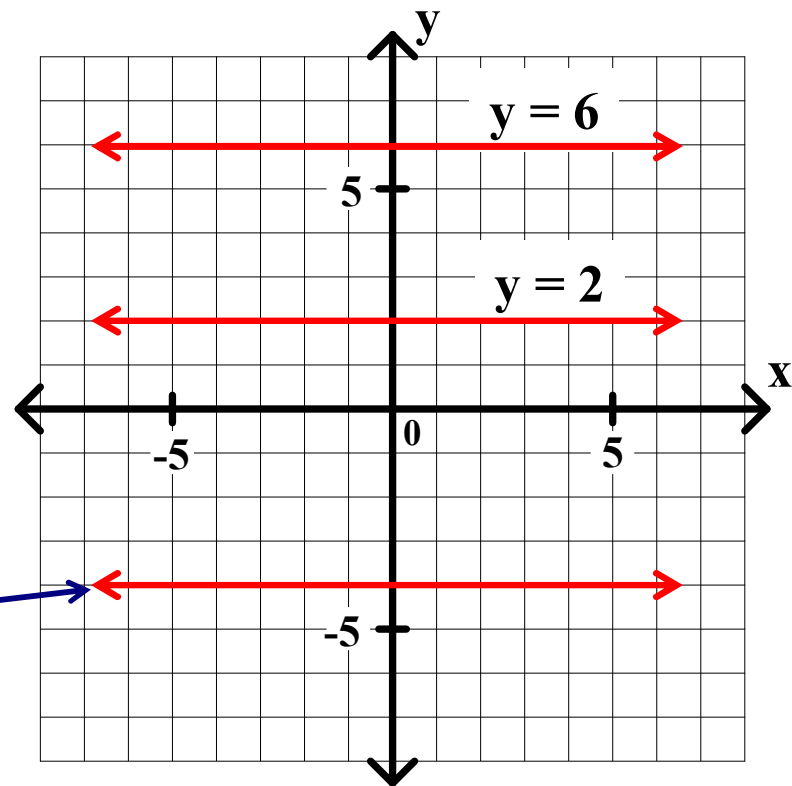


Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.



equation: $y = -4$

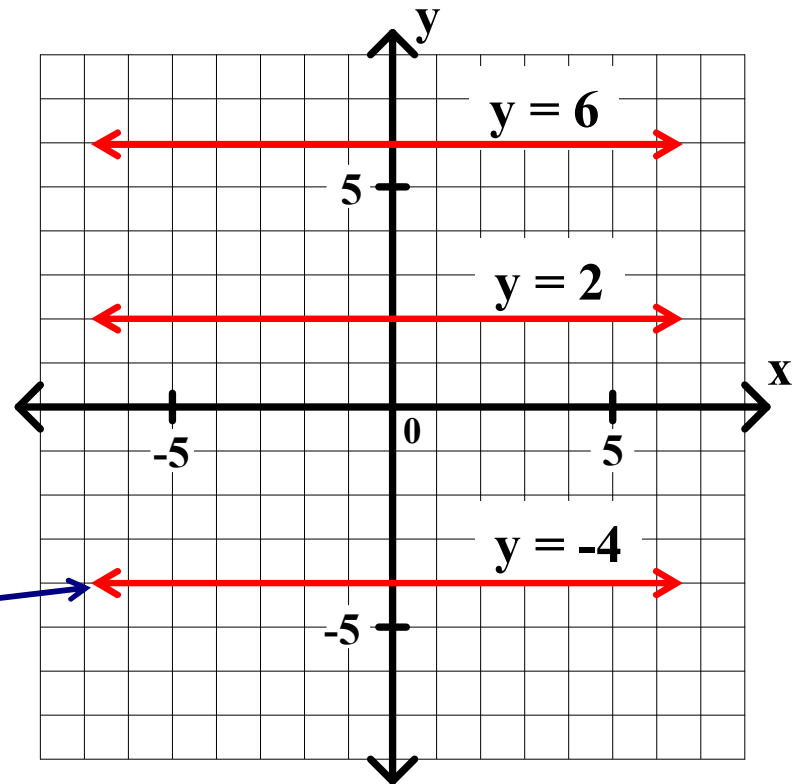
Every point on this line has a y-coordinate equal to -4 !!!

Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.



equation: $y = -4$

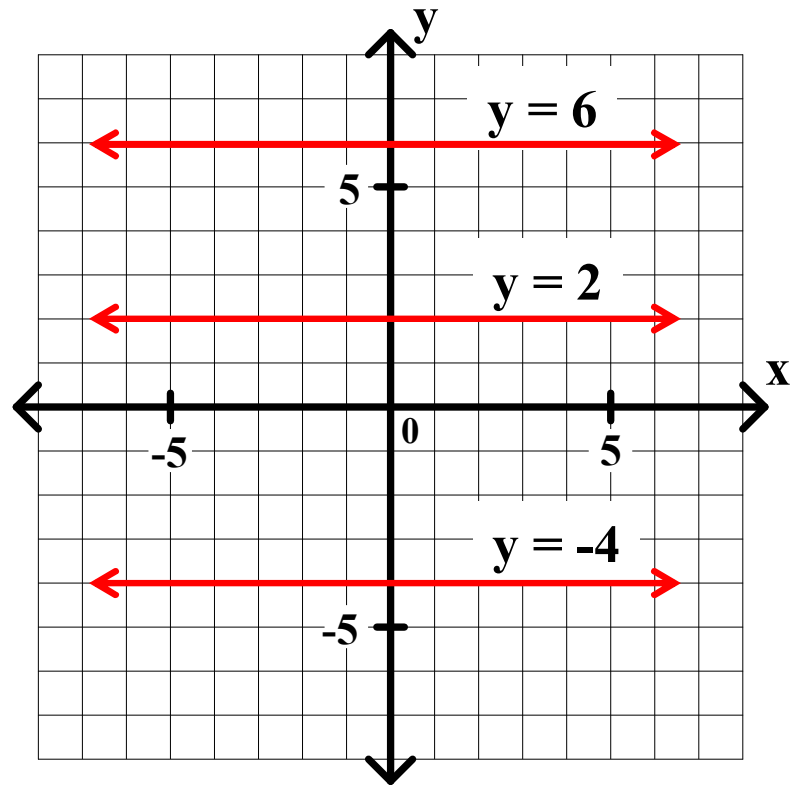
Every point on this line has a y-coordinate equal to -4 !!!

Algebra I Unit 7 The Equation of a Line

Horizontal Lines

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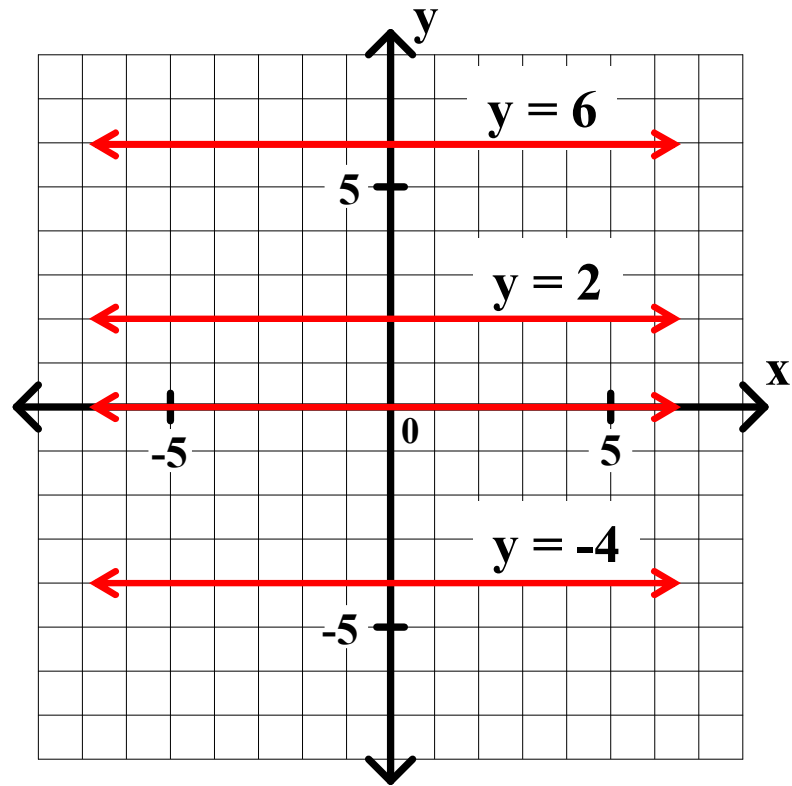


Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The **x-axis** or any line parallel to the **x-axis** is a horizontal line.

Here are some examples.



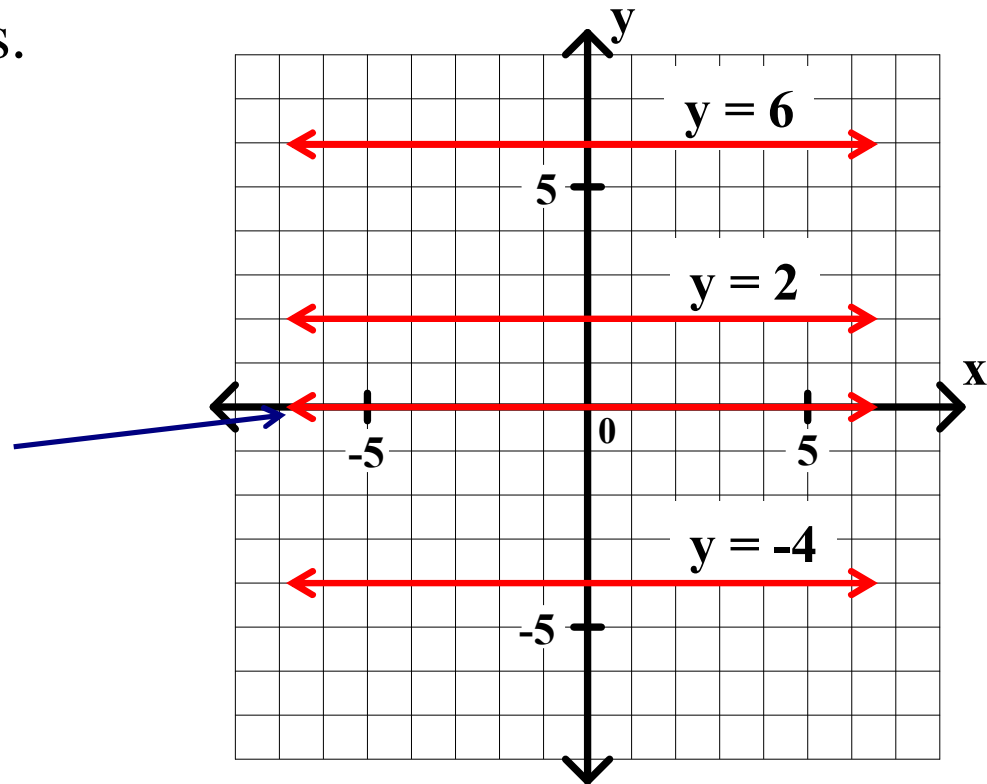
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equation:

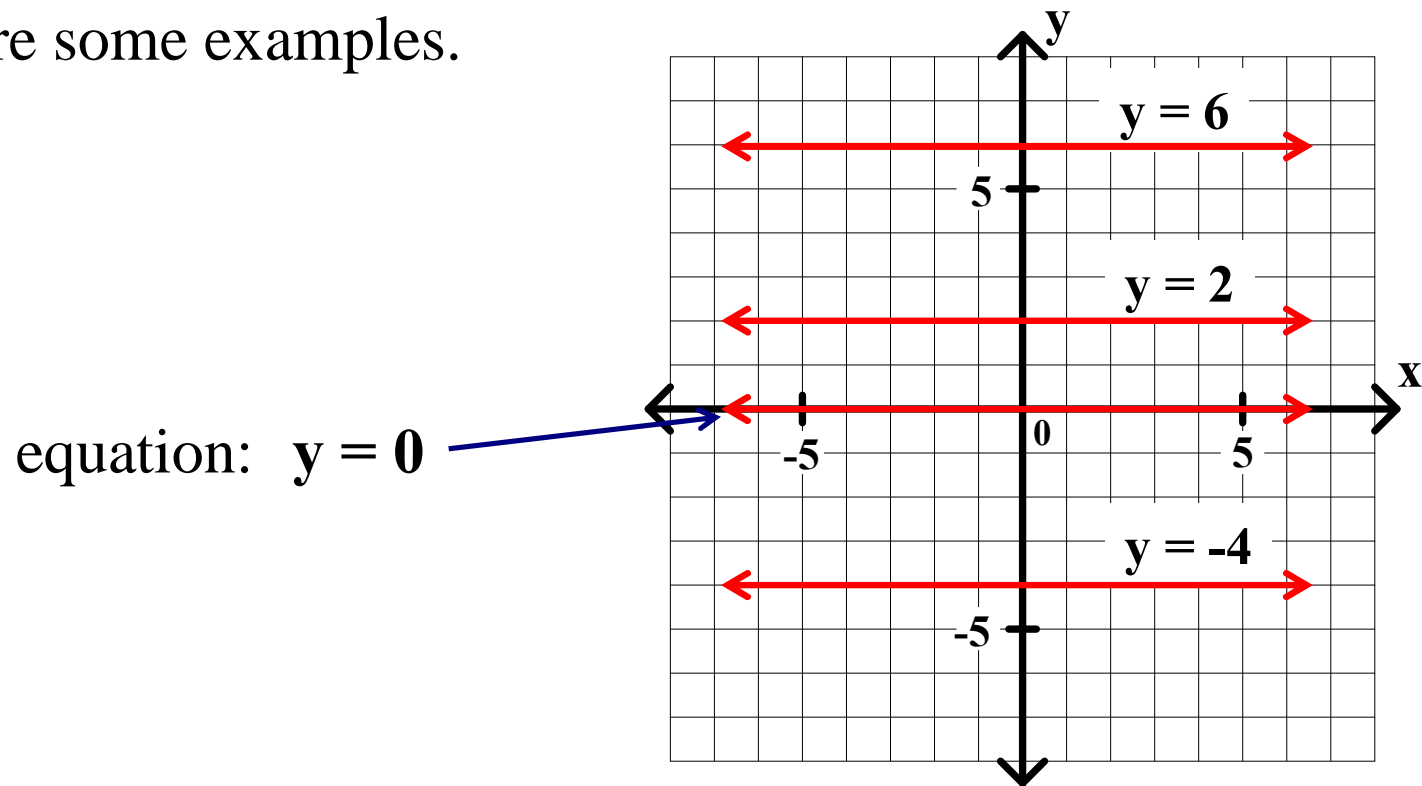


Algebra I Unit 7 The Equation of a Line

Horizontal Lines

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Algebra I Unit 7 The Equation of a Line

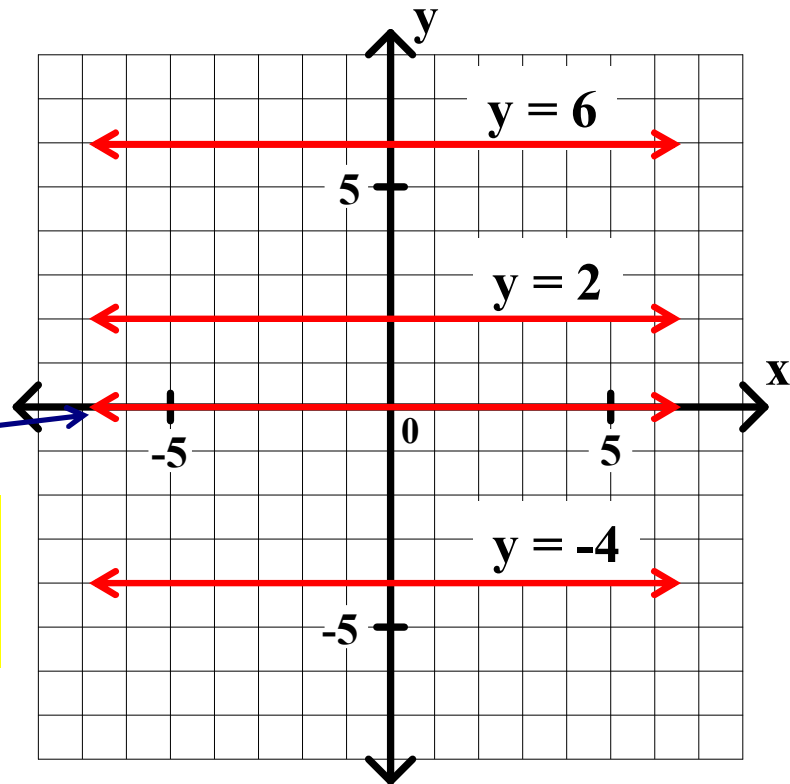
Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.

equation: $y = 0$

Every point on the x-axis has a y-coordinate equal to 0 !!!



Algebra I Unit 7 The Equation of a Line

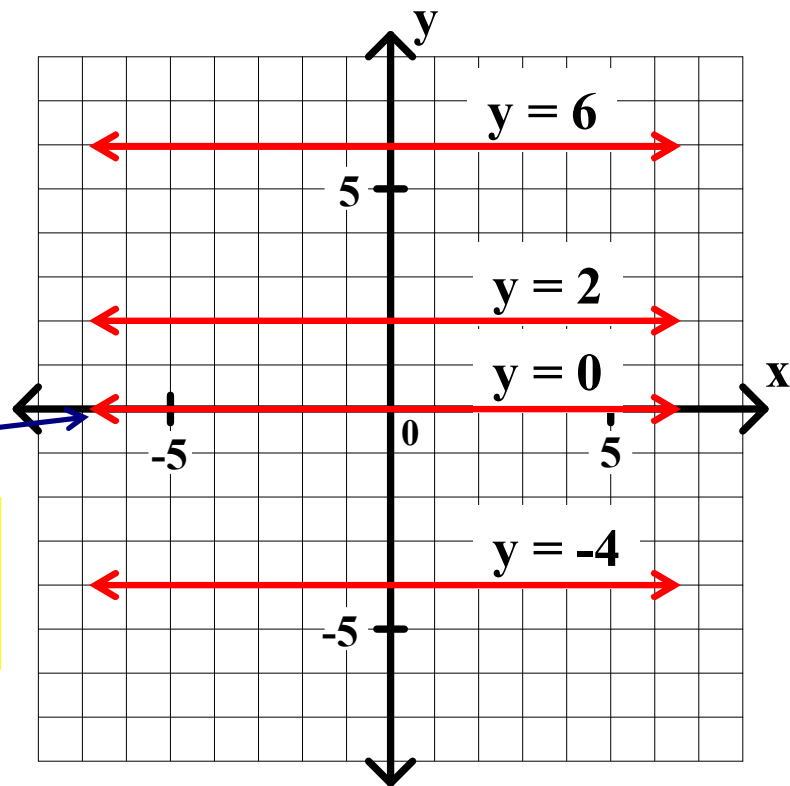
Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Here are some examples.

equation: $y = 0$

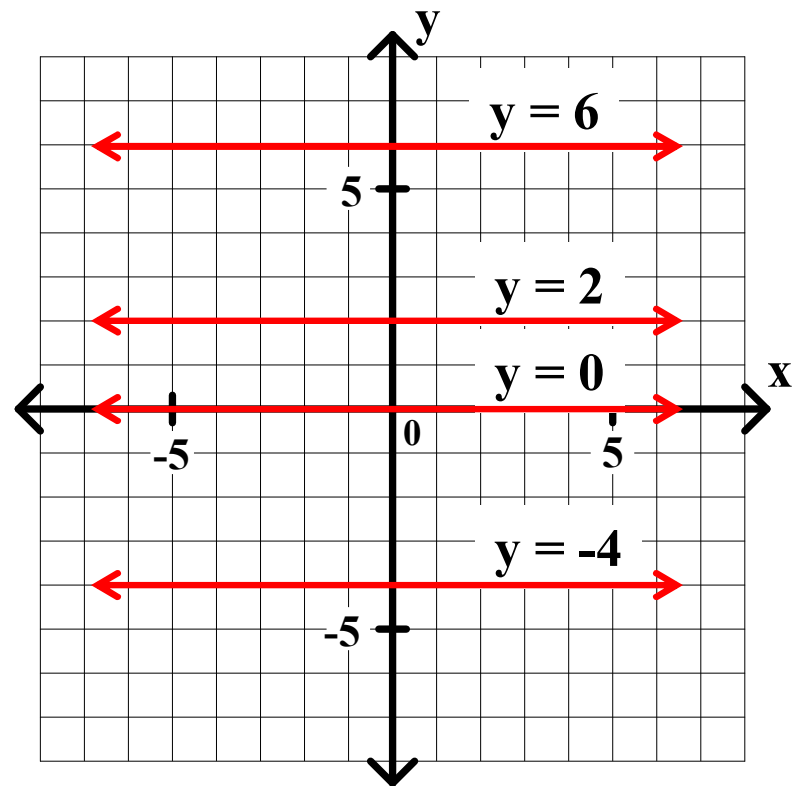
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Algebra I Unit 7 The Equation of a Line

Horizontal Lines

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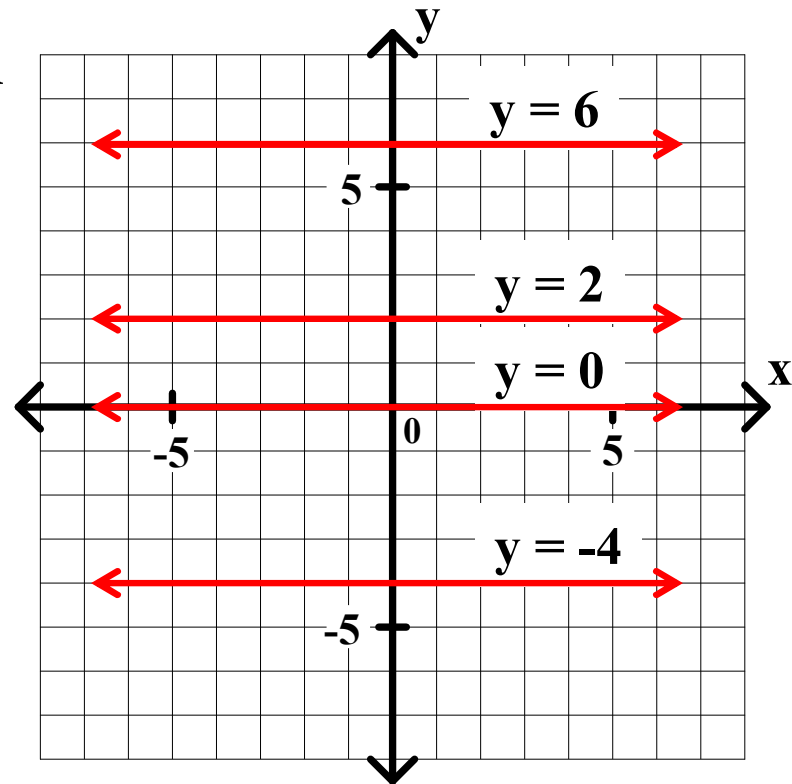


Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Every horizontal line has an equation with the form



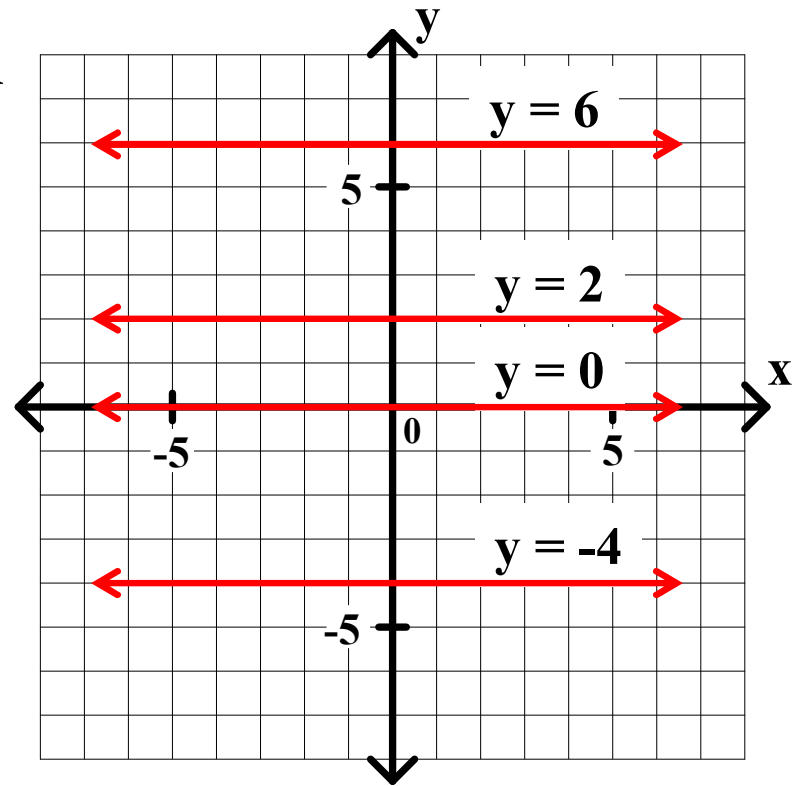
Algebra I Unit 7 The Equation of a Line

Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Every horizontal line has an equation with the form

$$y = k.$$



Algebra I Unit 7 The Equation of a Line

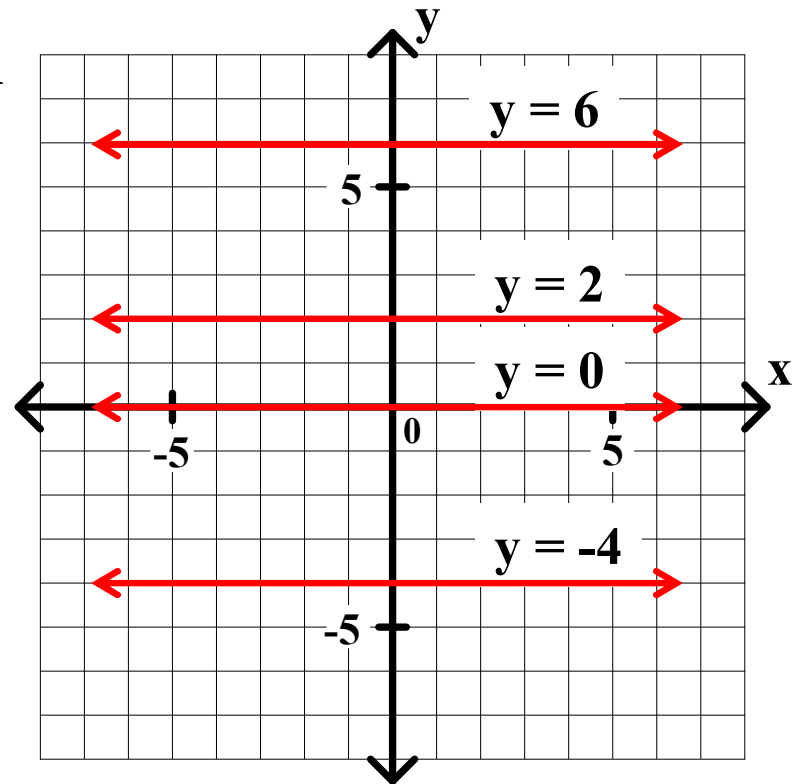
Horizontal Lines

The x-axis or any line parallel to the x-axis is a horizontal line.

Every horizontal line has an equation with the form

$$y = k.$$

The Slope of a Horizontal Line



Algebra I Unit 7 The Equation of a Line

Horizontal Lines

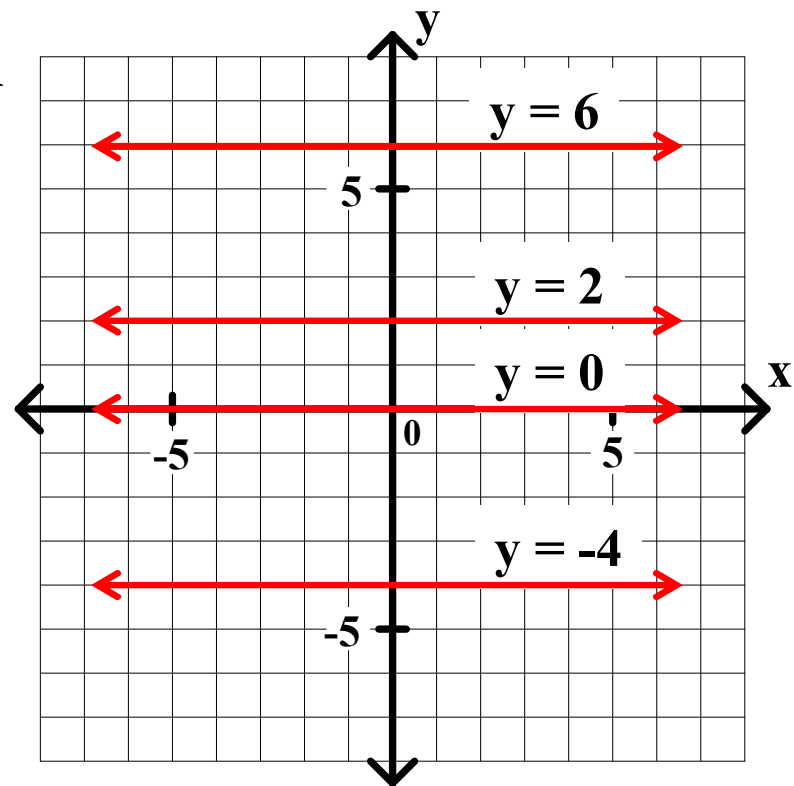
The x-axis or any line parallel to the x-axis is a horizontal line.

Every horizontal line has an equation with the form

$$y = k.$$

The Slope of a Horizontal Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}}$$



Algebra I Unit 7 The Equation of a Line

Horizontal Lines

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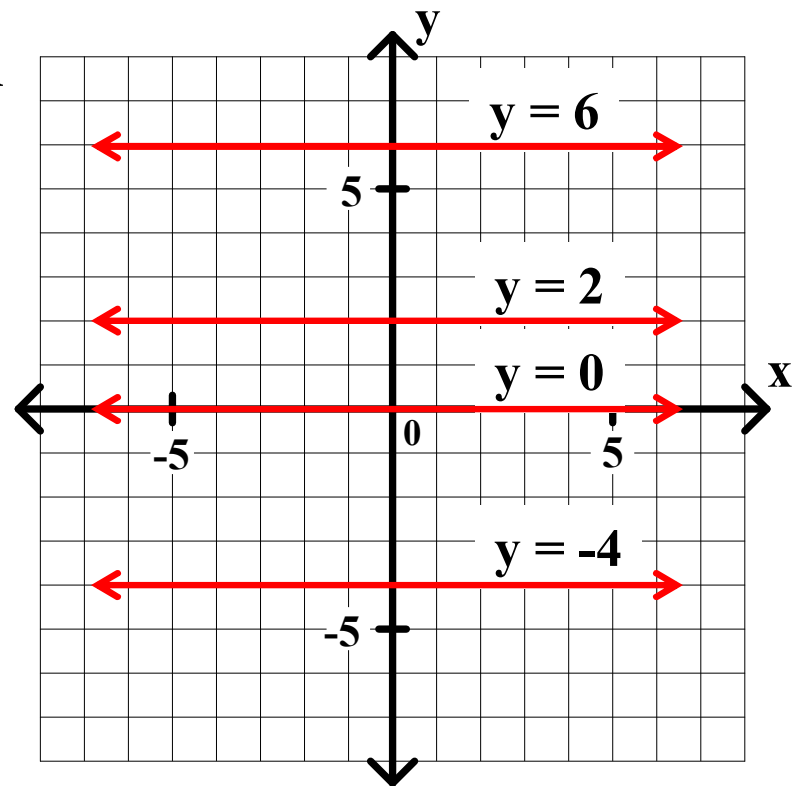
Every horizontal line has an equation with the form

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The Slope of a Horizontal Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}}$$

The rise is 0 !!



Algebra I Unit 7 The Equation of a Line

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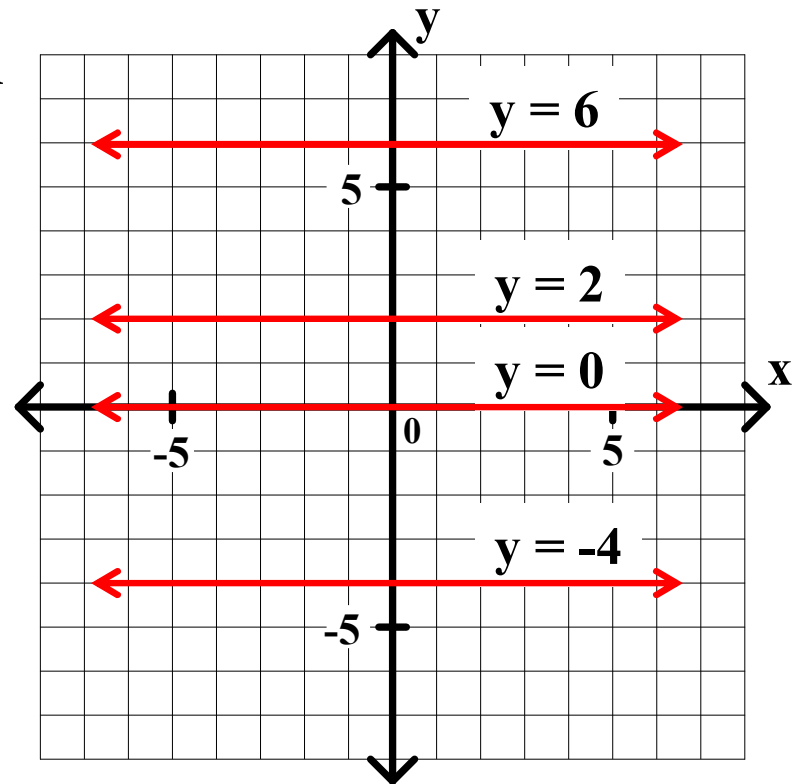
Every horizontal line has an equation with the form

$$y = k.$$

The Slope of a Horizontal Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{0}{\text{Run}}$$

The rise is 0 !!



Algebra I Unit 7 The Equation of a Line

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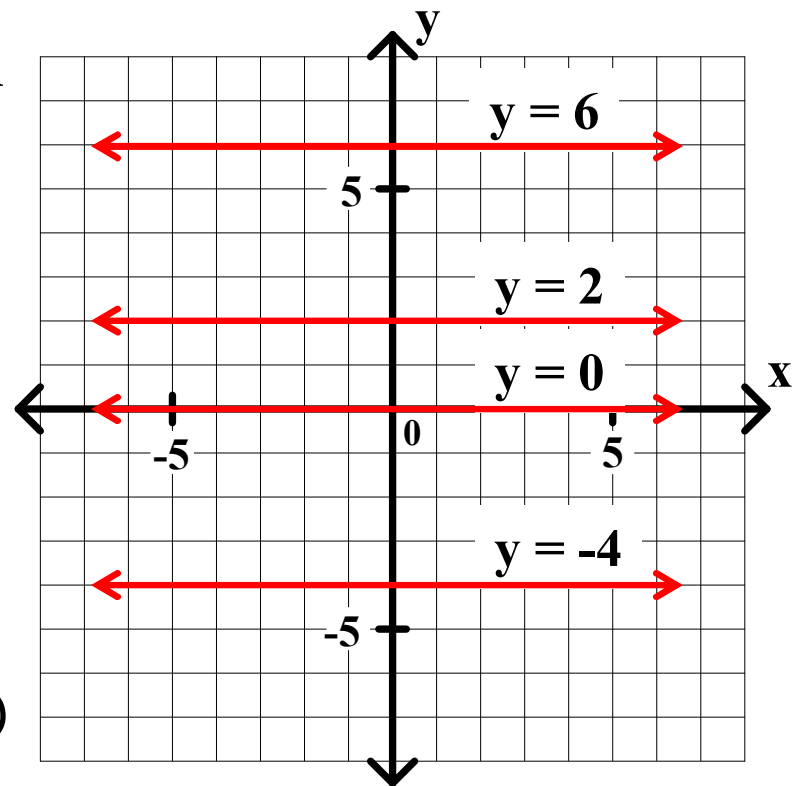
Every horizontal line has an equation with the form

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The Slope of a Horizontal Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{0}{\text{Run}}$$

The rise is 0 !! (The run is not 0.)



Algebra I Unit 7 The Equation of a Line

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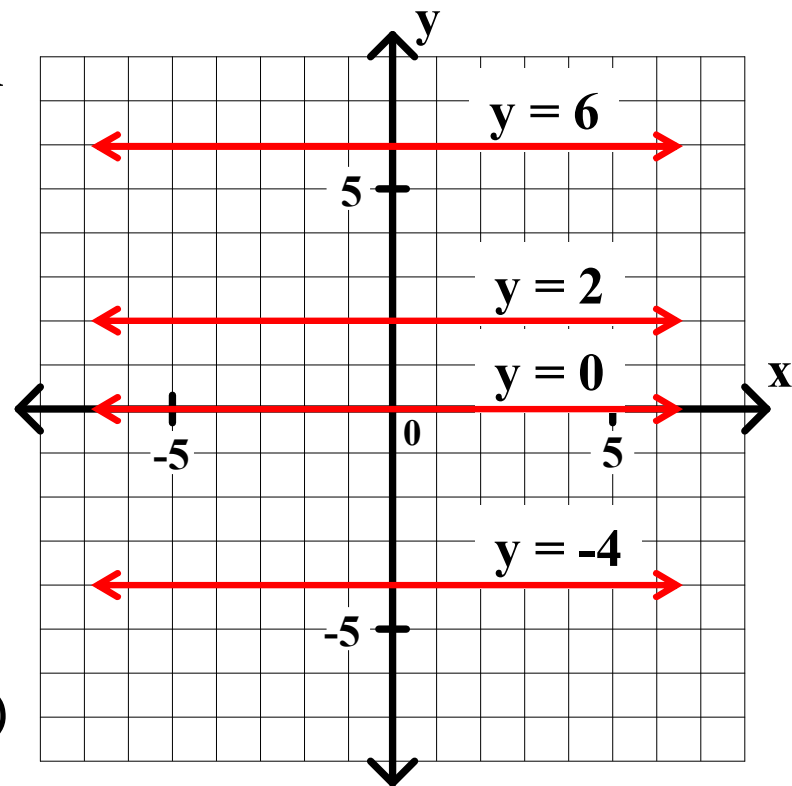
Every horizontal line has an equation with the form

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The Slope of a Horizontal Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{0}{\text{Run}} = 0$$

The rise is 0 !! (The run is not 0.)



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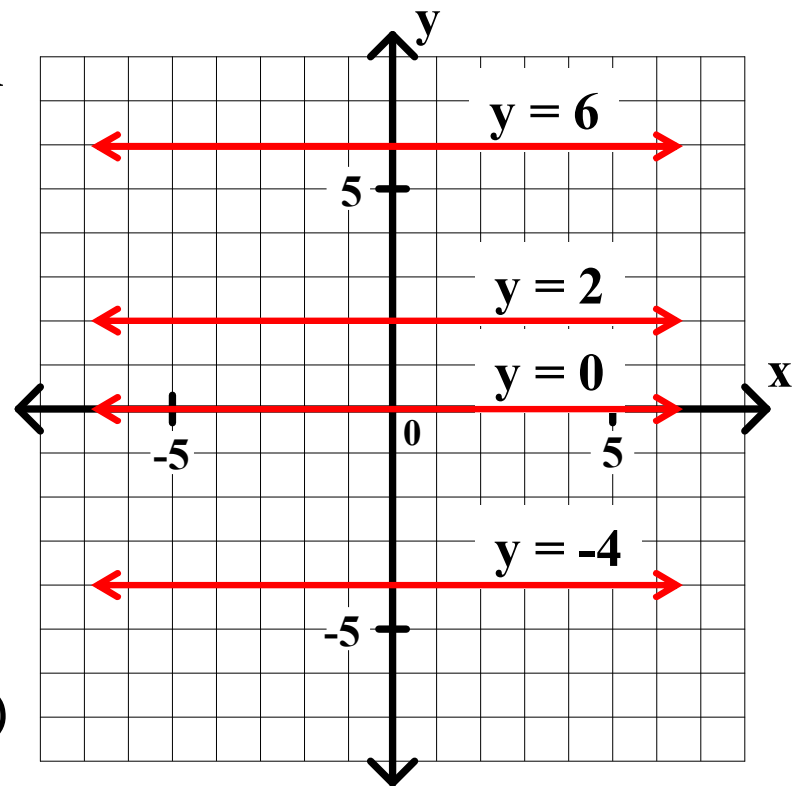
Every horizontal line has an equation with the form

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The Slope of a Horizontal Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{0}{\text{Run}} = 0$$

The rise is 0 !! (The run is not 0.)



The slope of every horizontal line is 0.

Algebra I Unit 7 The Equation of a Line

Vertical Lines

Algebra I Unit 7 The Equation of a Line

Vertical Lines

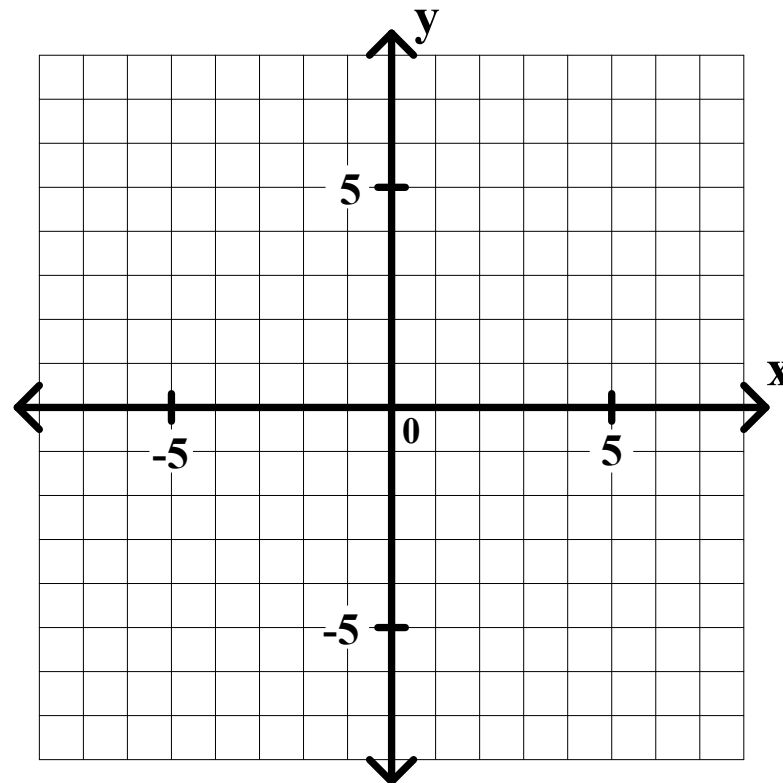
The y-axis or any line parallel to the y-axis is a vertical line.

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Here are some examples.

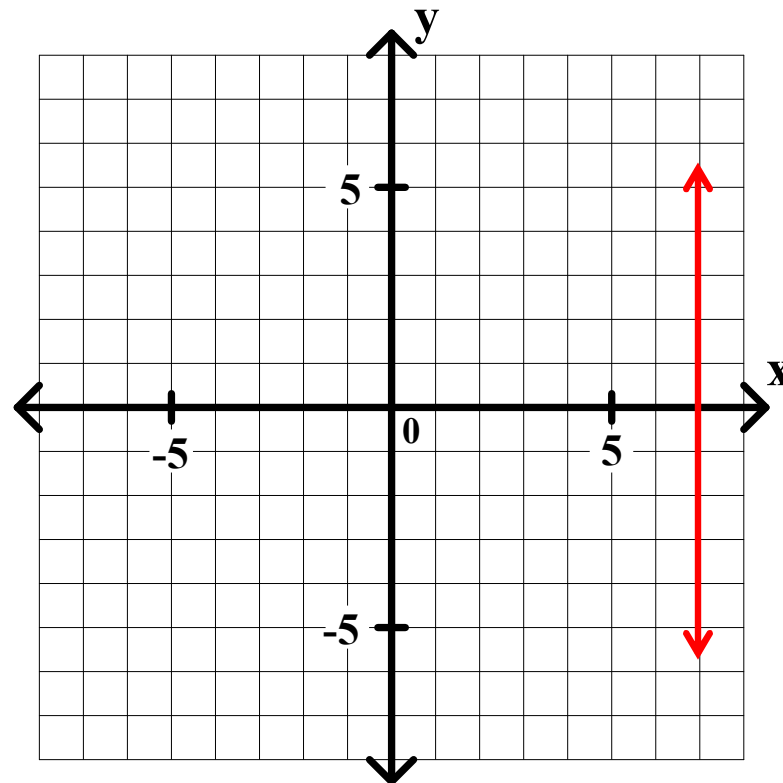


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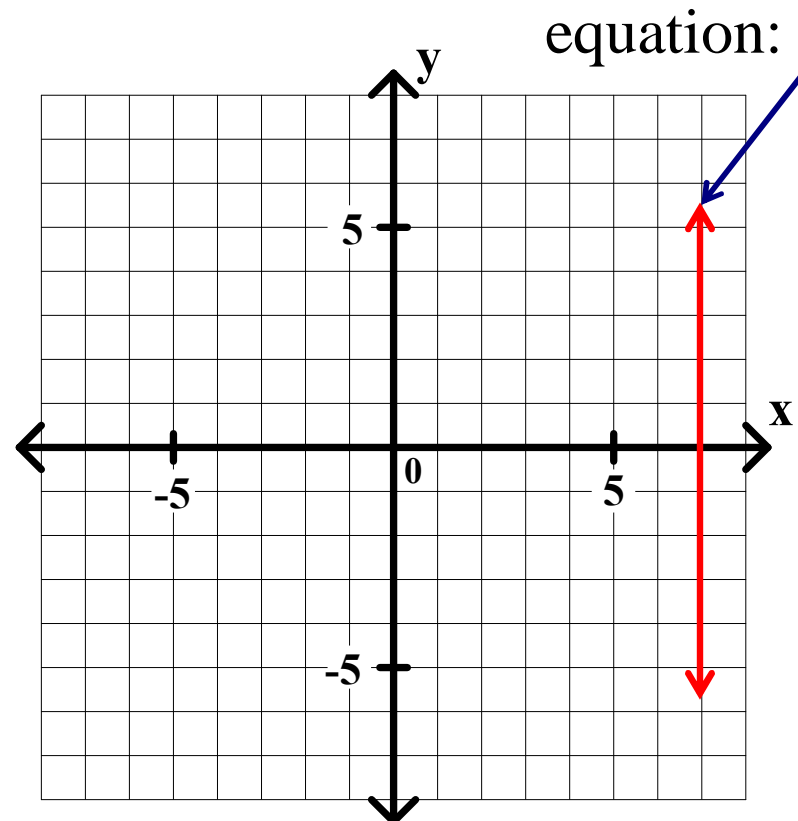


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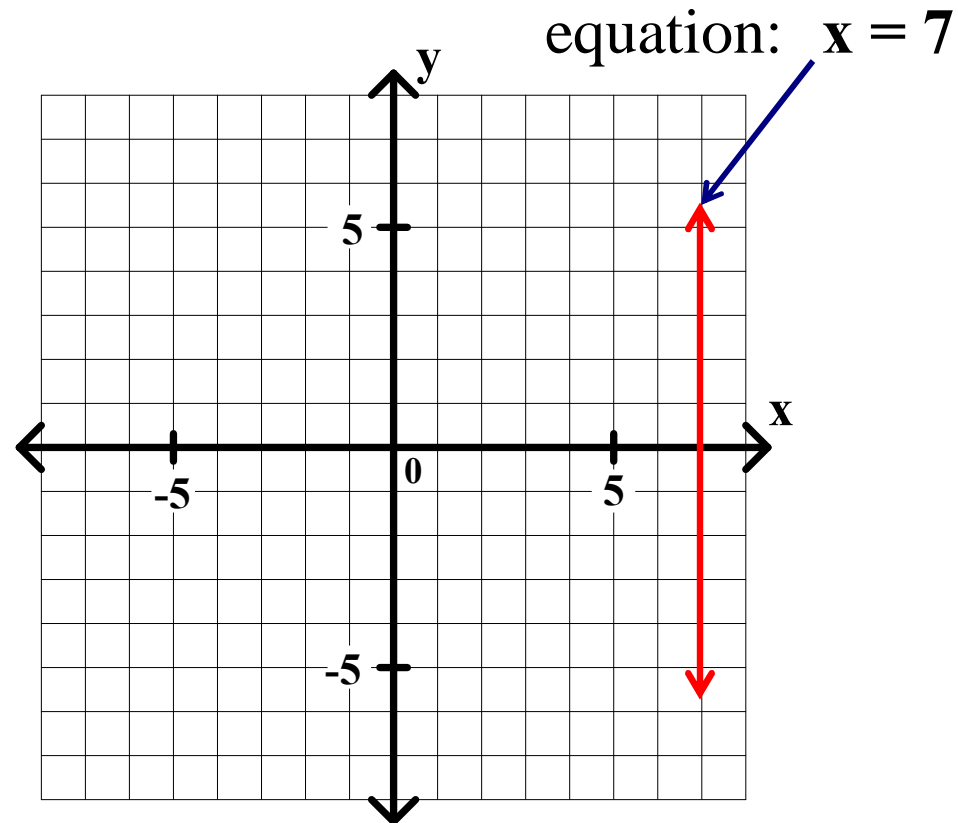


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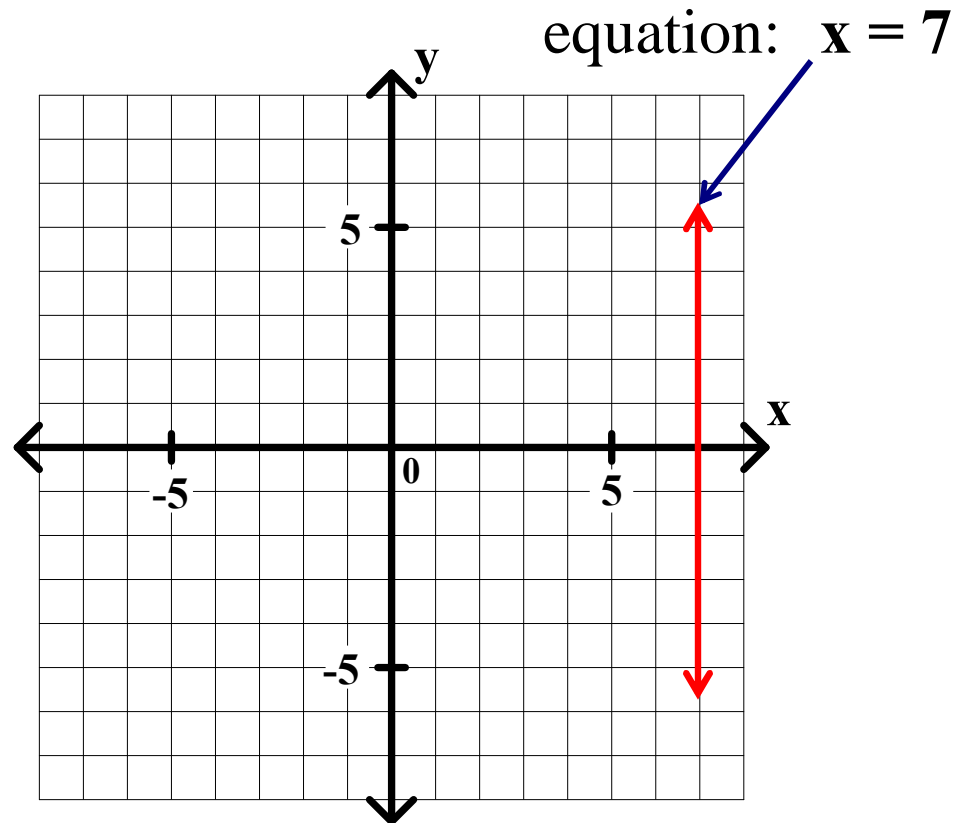
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

Every point on this line has an x-coordinate equal to 7 !!!



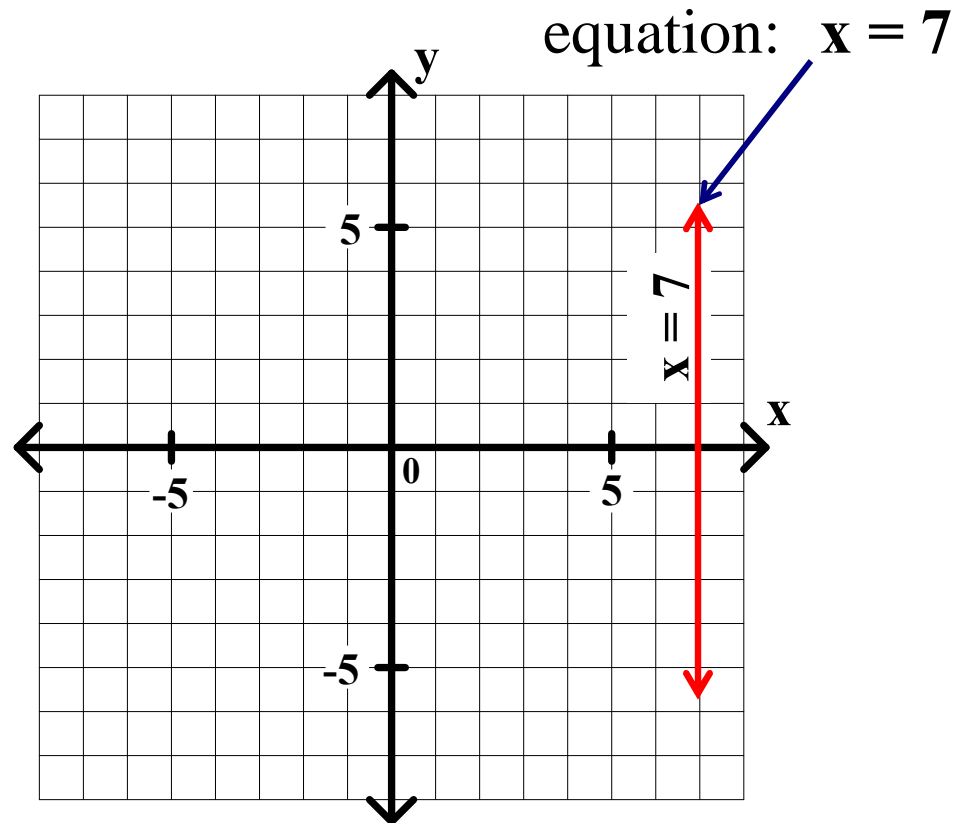
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

Every point on this line has an x-coordinate equal to 7 !!!

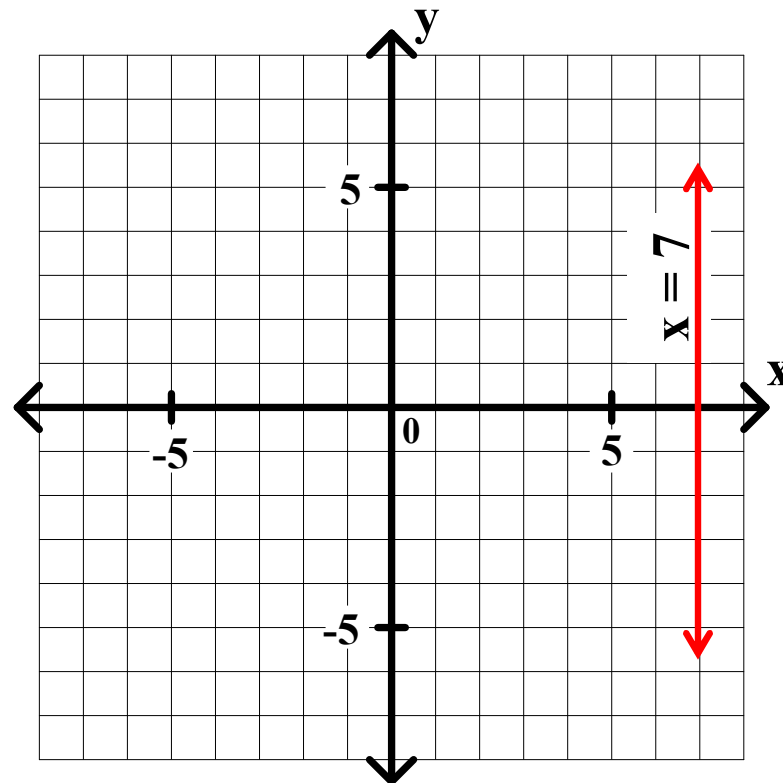


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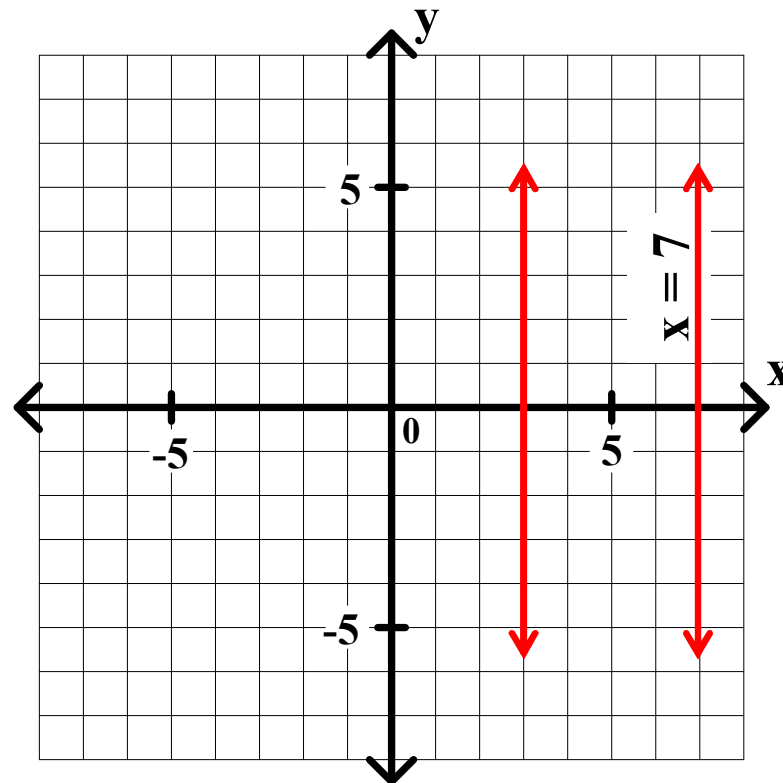


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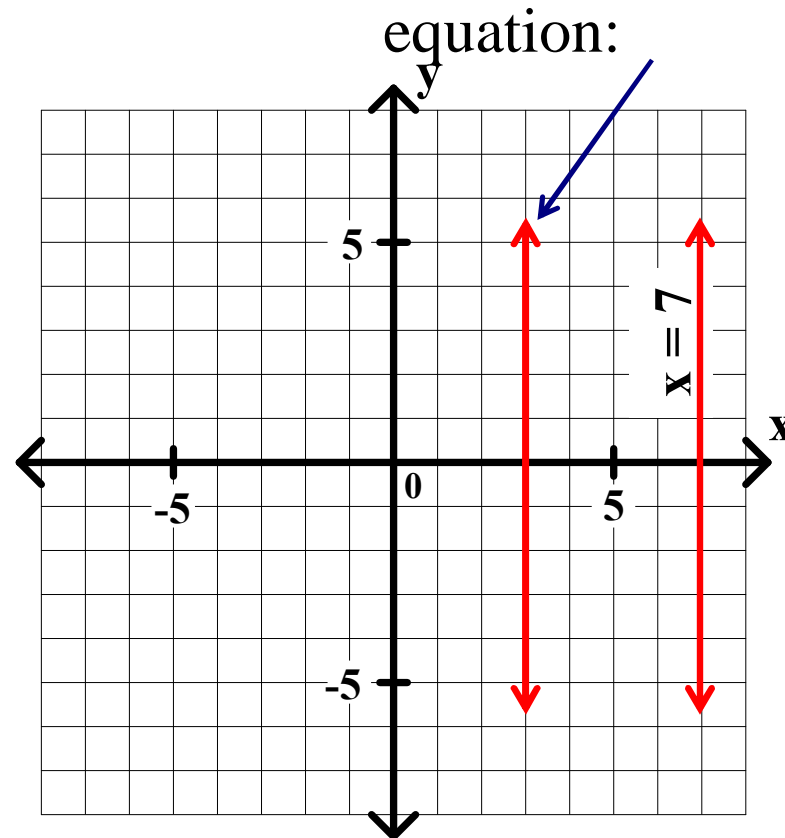


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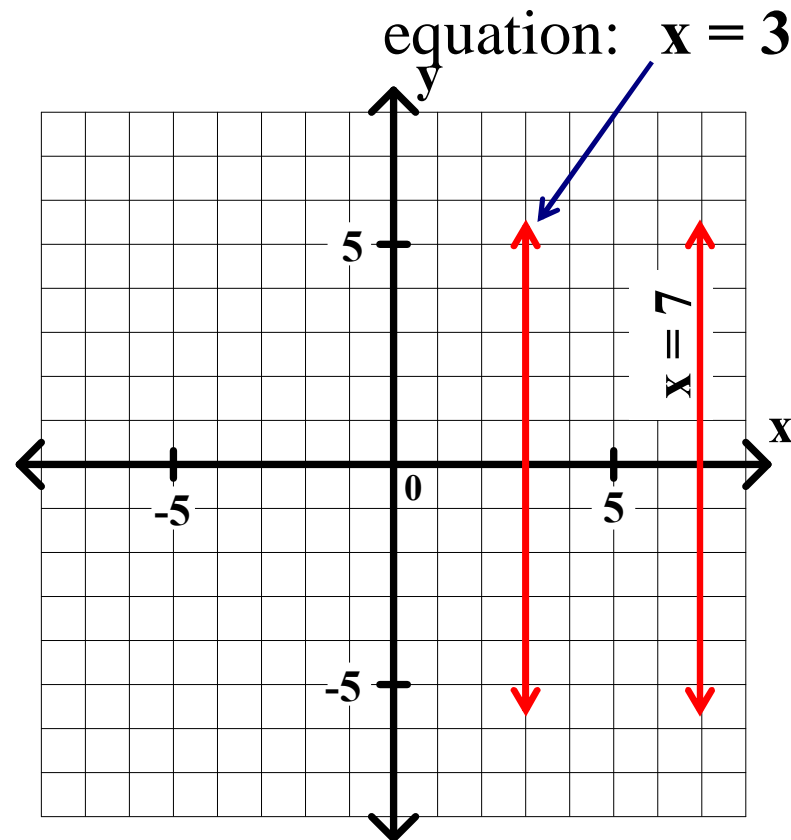


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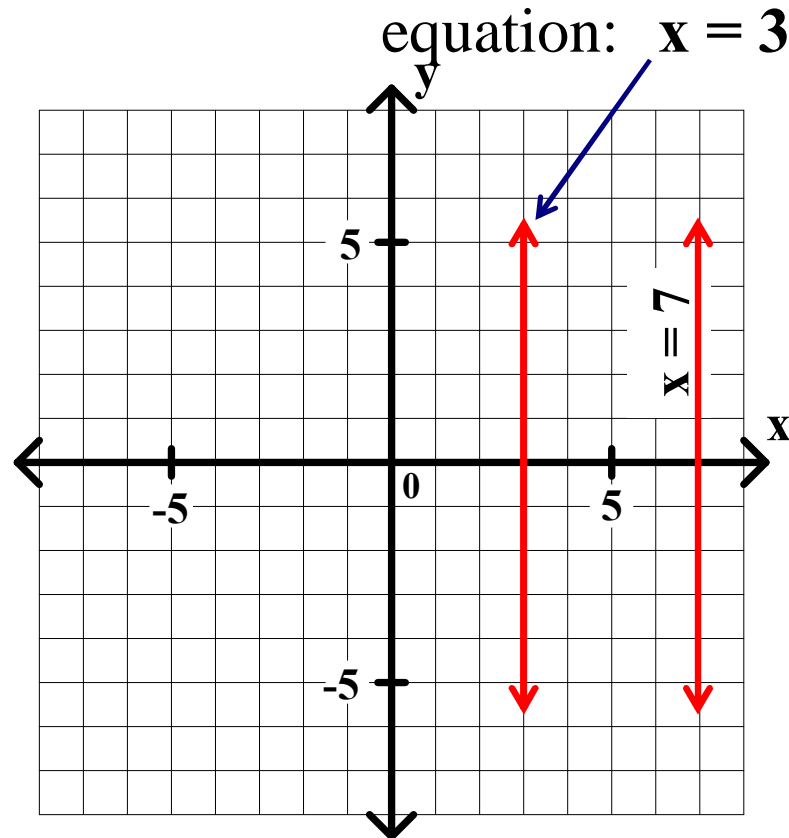
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

Every point on this line has an x-coordinate equal to 3 !!!



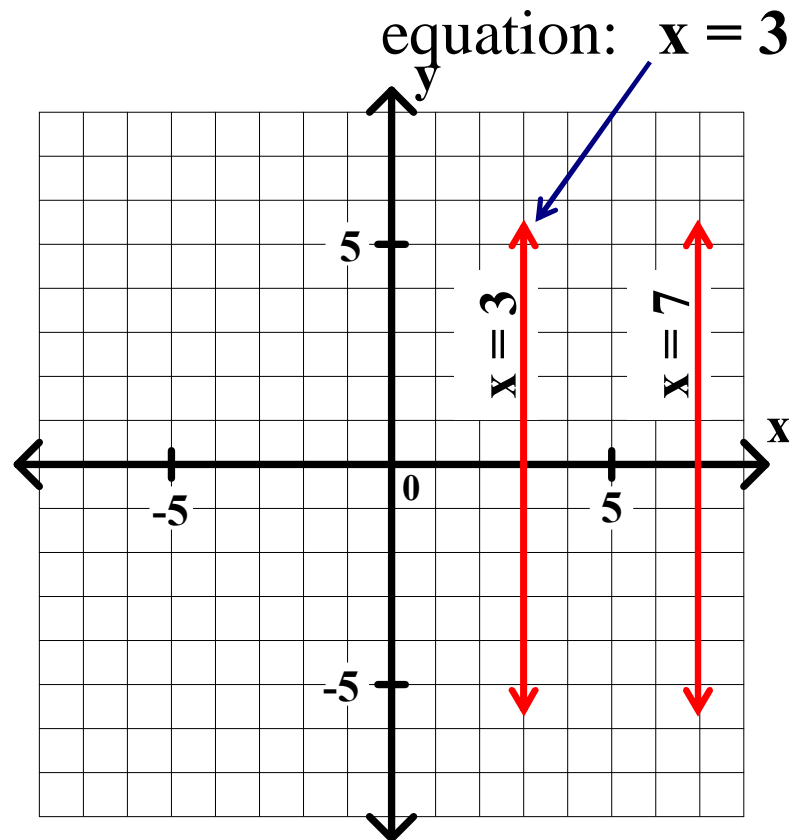
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The **y-axis** or any line parallel to the **y-axis** is a vertical line.

Here are some examples.

Every point on this line has an x-coordinate equal to 3 !!!

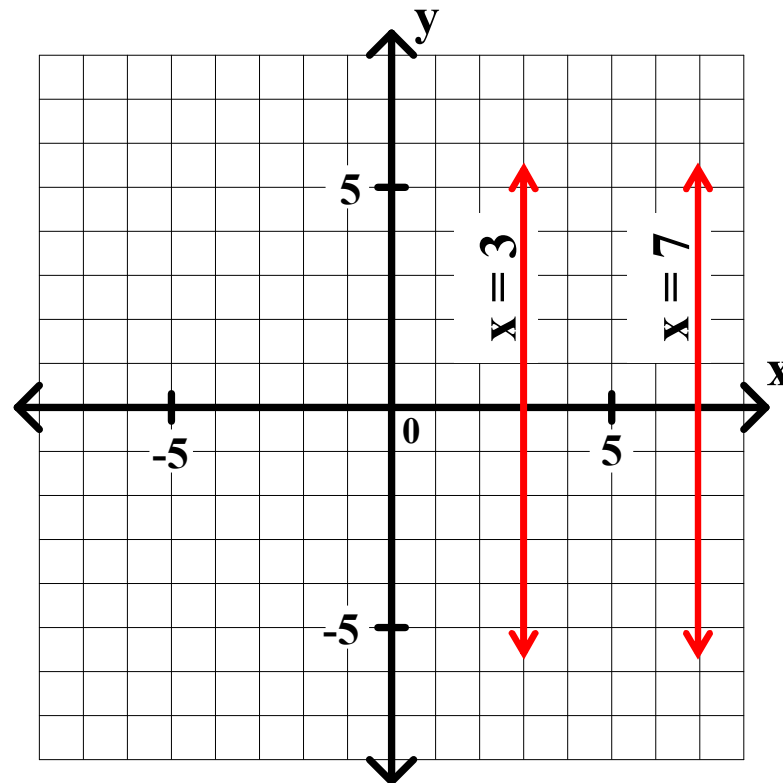


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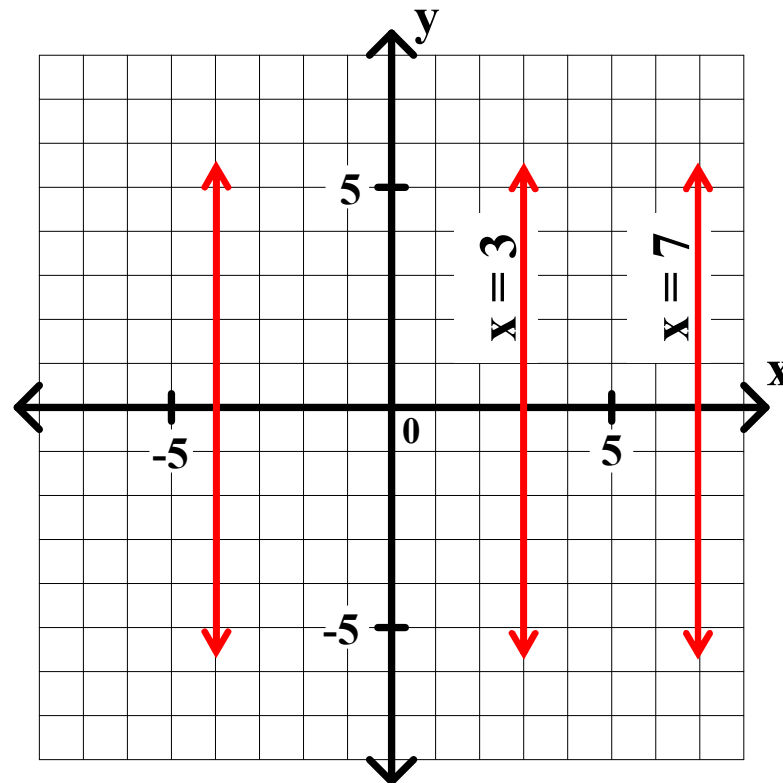


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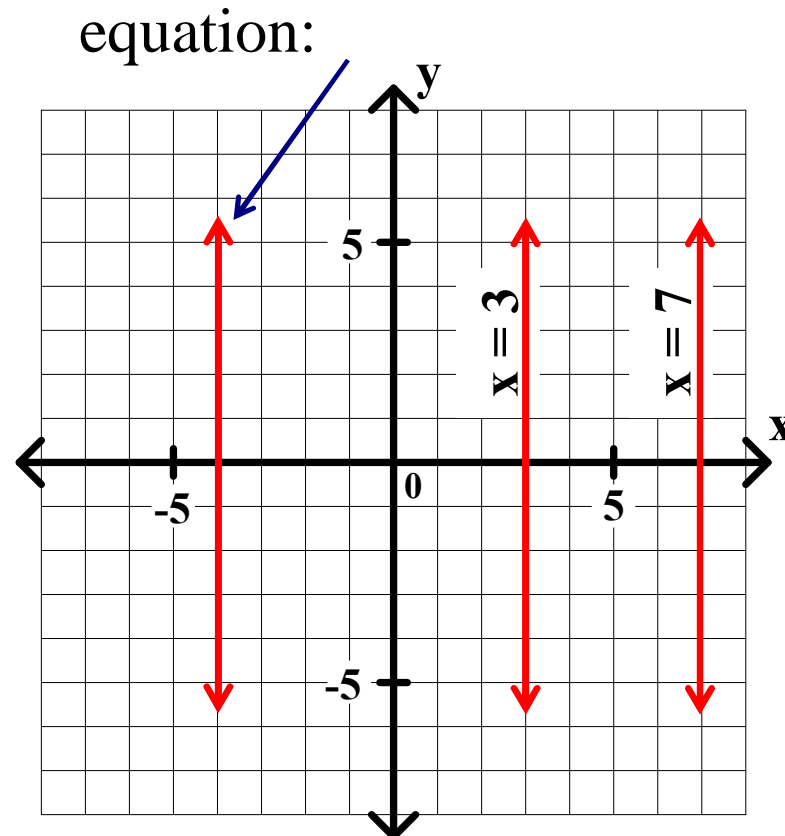


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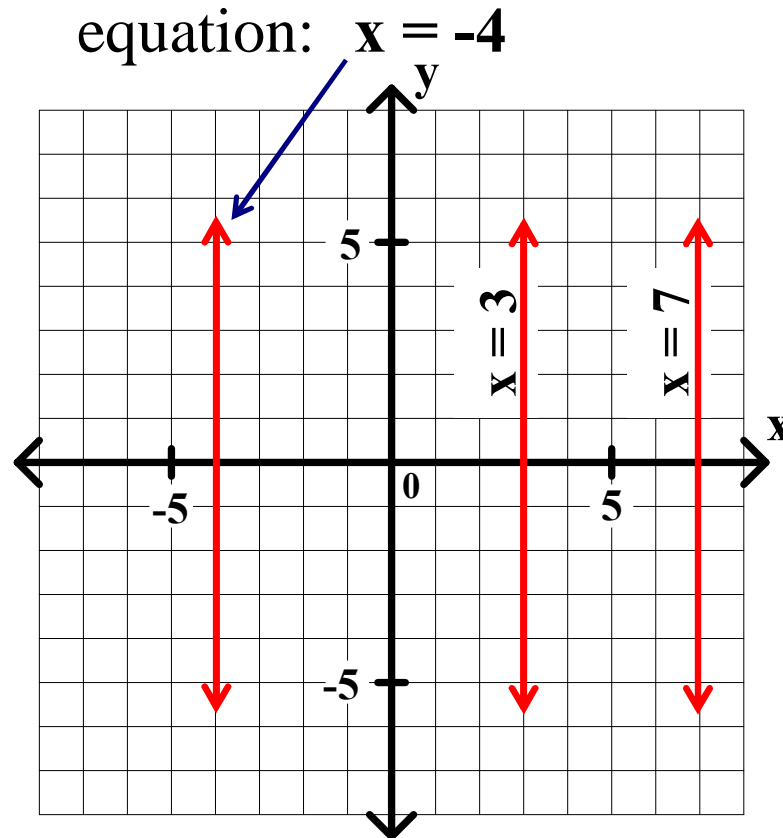


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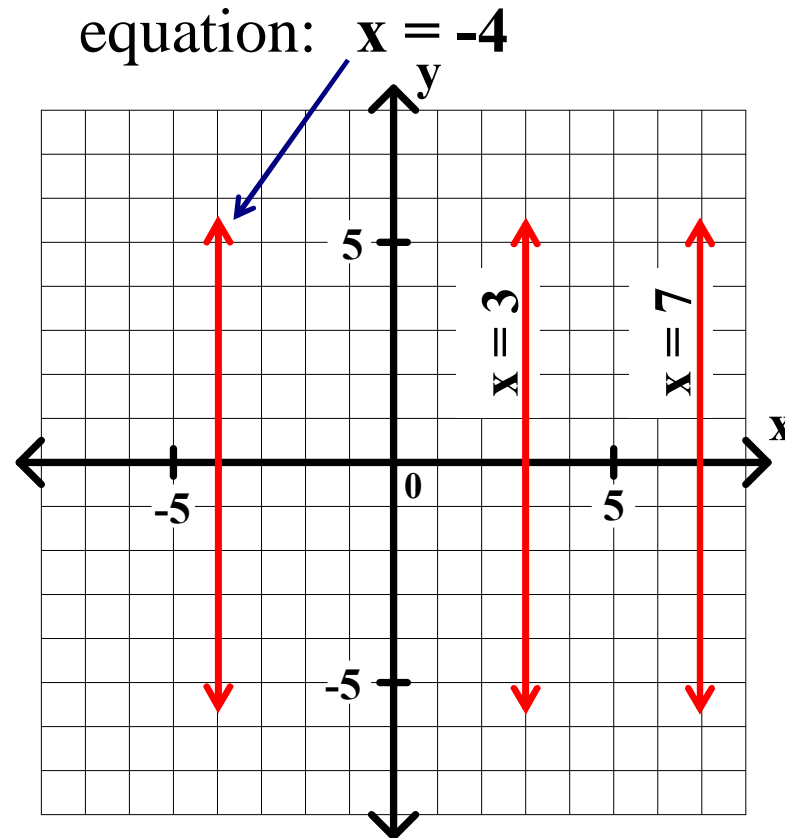
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

Every point on this line has an x-coordinate equal to -4 !!!



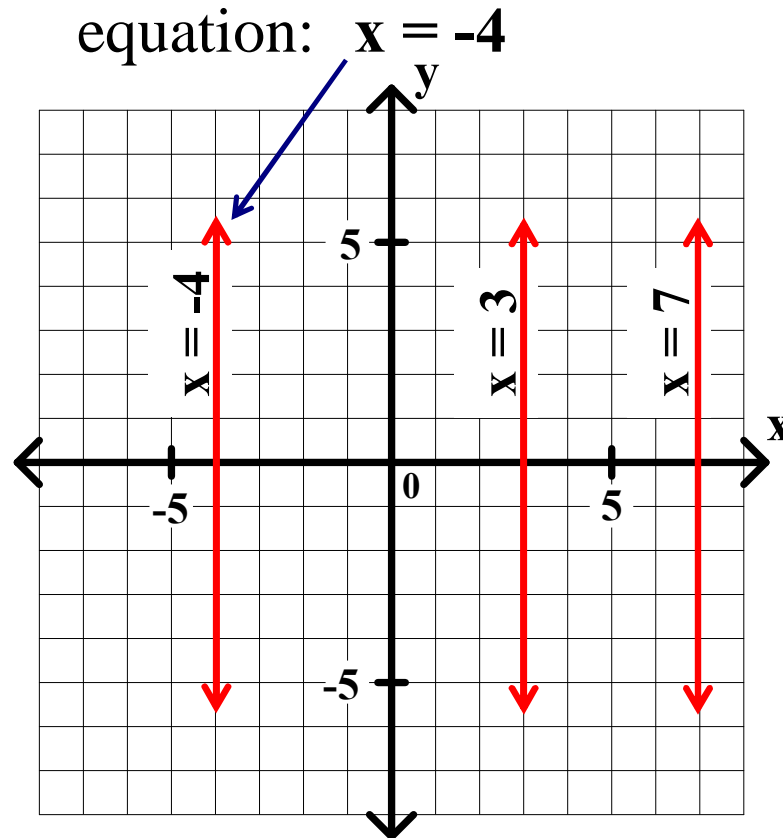
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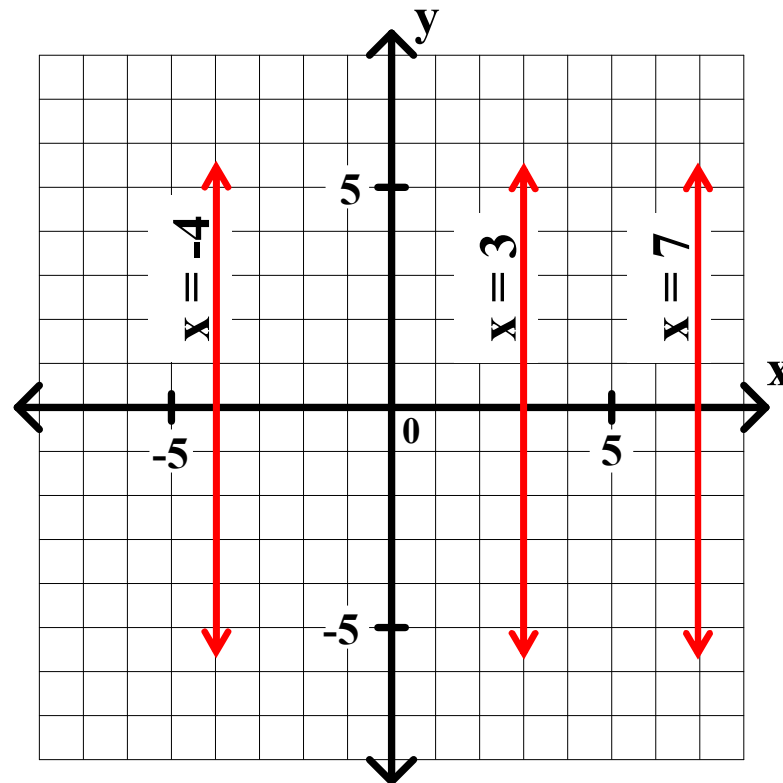


Algebra I Unit 7 The Equation of a Line

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Here are some examples.

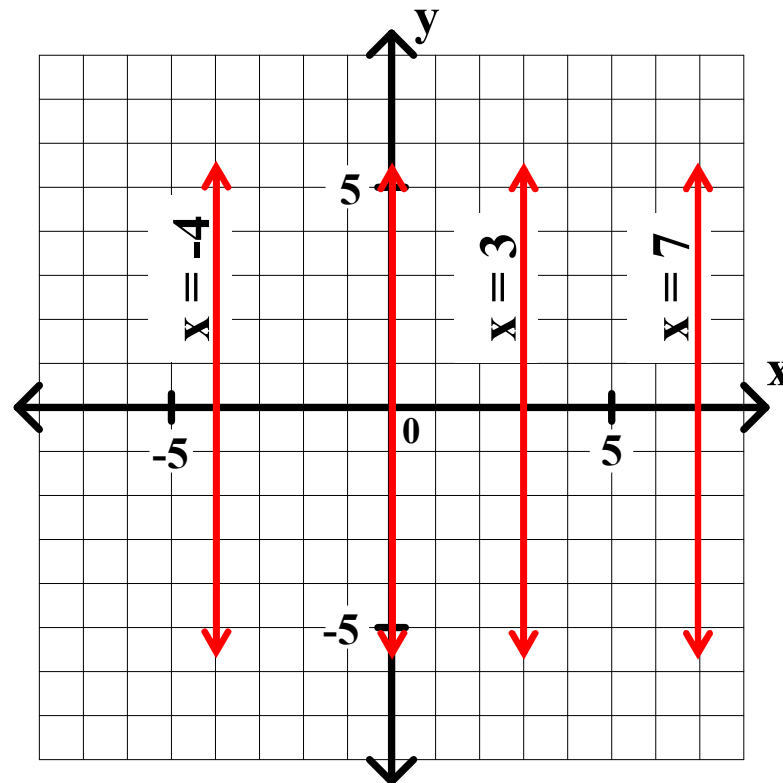


Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

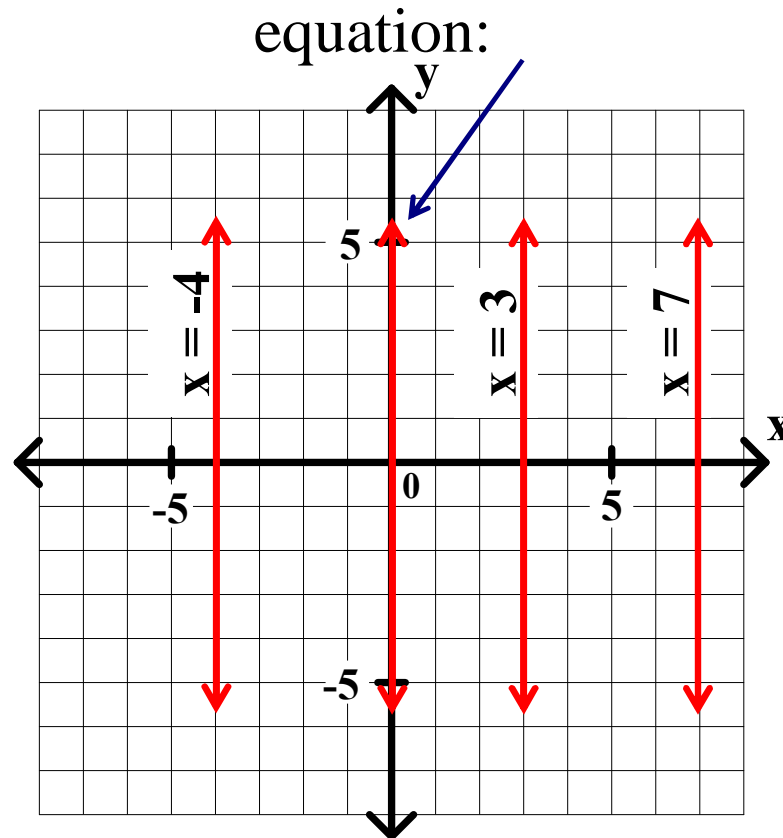


Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

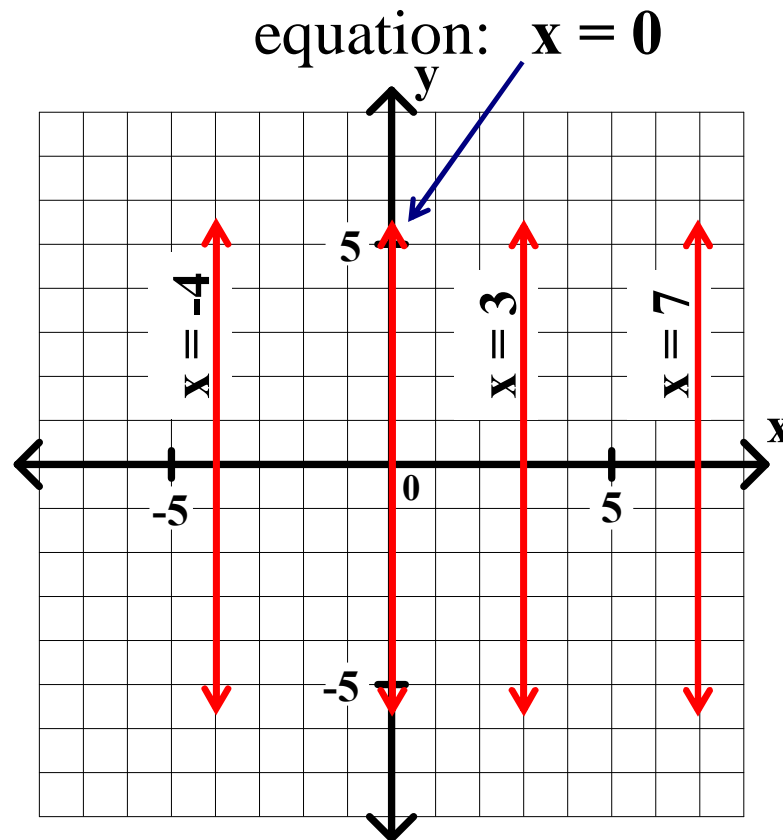


Algebra I Unit 7 The Equation of a Line

Vertical Lines

The **y-axis** or any line parallel to the **y-axis** is a vertical line.

Here are some examples.



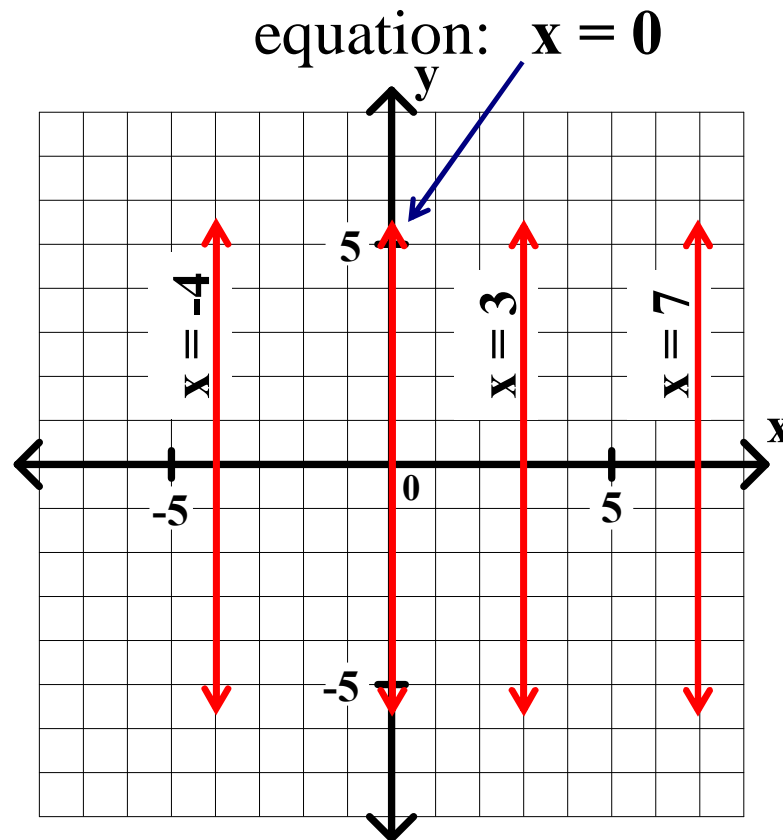
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The **y-axis** or any line parallel to the **y-axis** is a vertical line.

Here are some examples.

Every point on the y-axis has an x-coordinate equal to 0 !!!



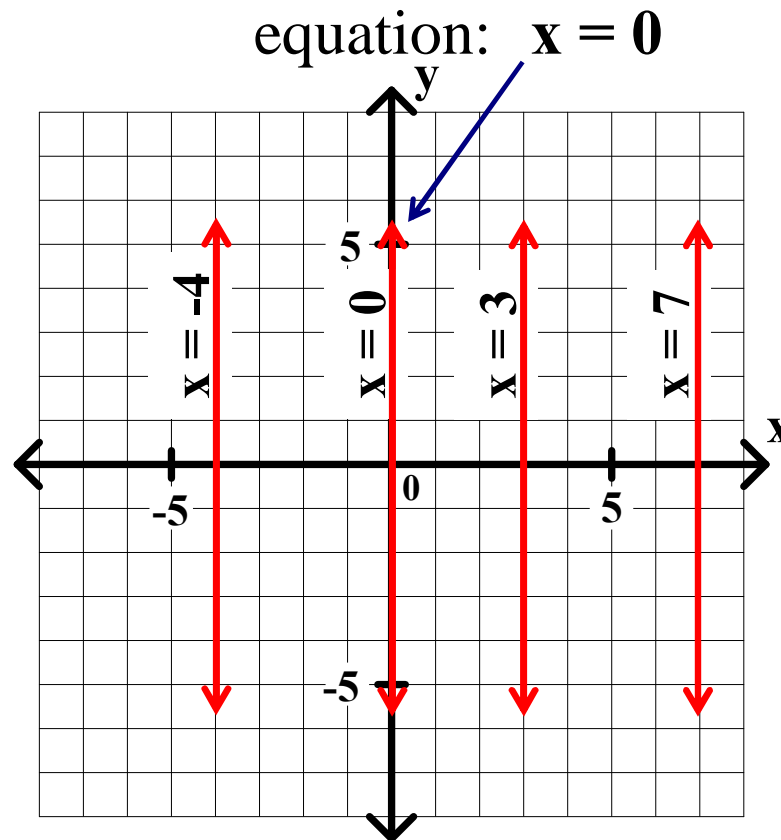
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Here are some examples.

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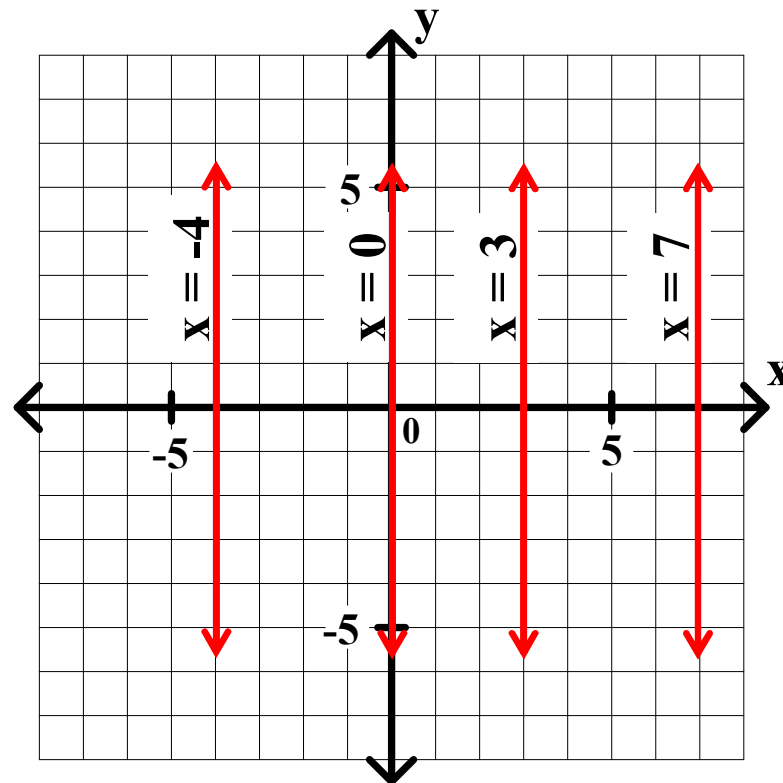


Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

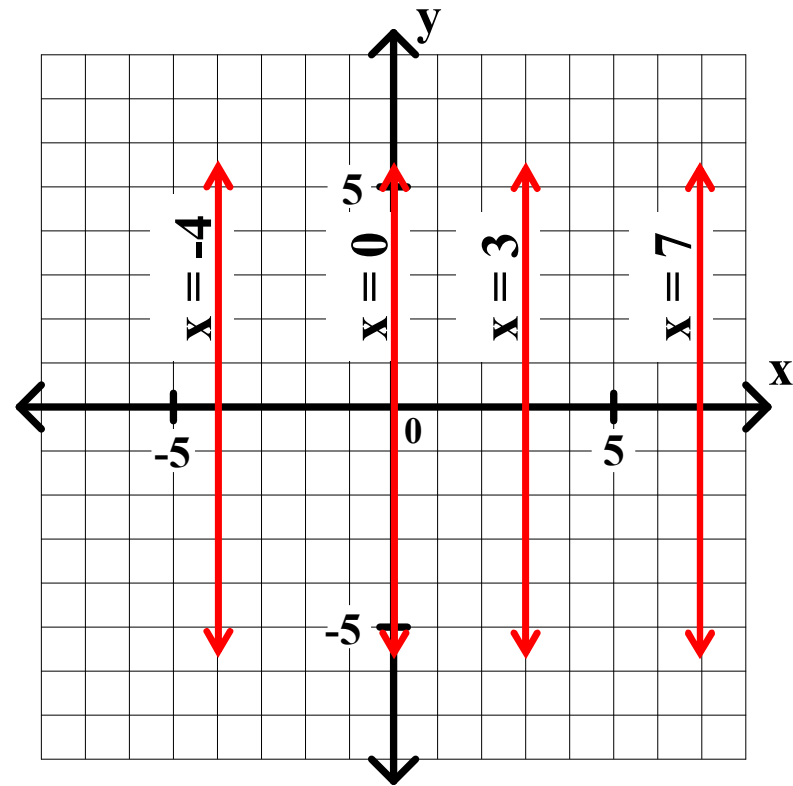
Here are some examples.



Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

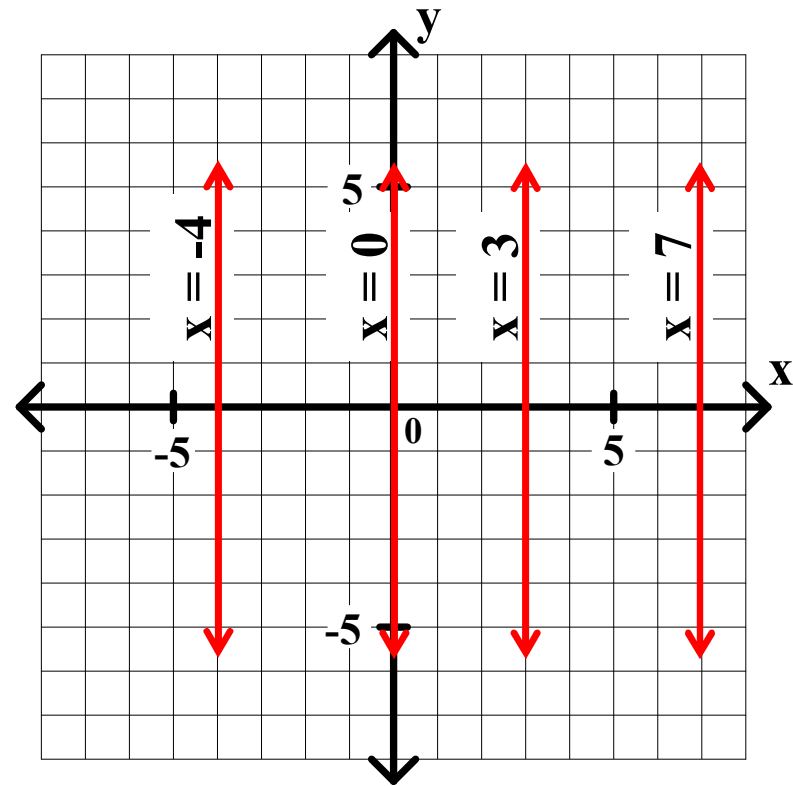


Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Every vertical line has an equation with the form



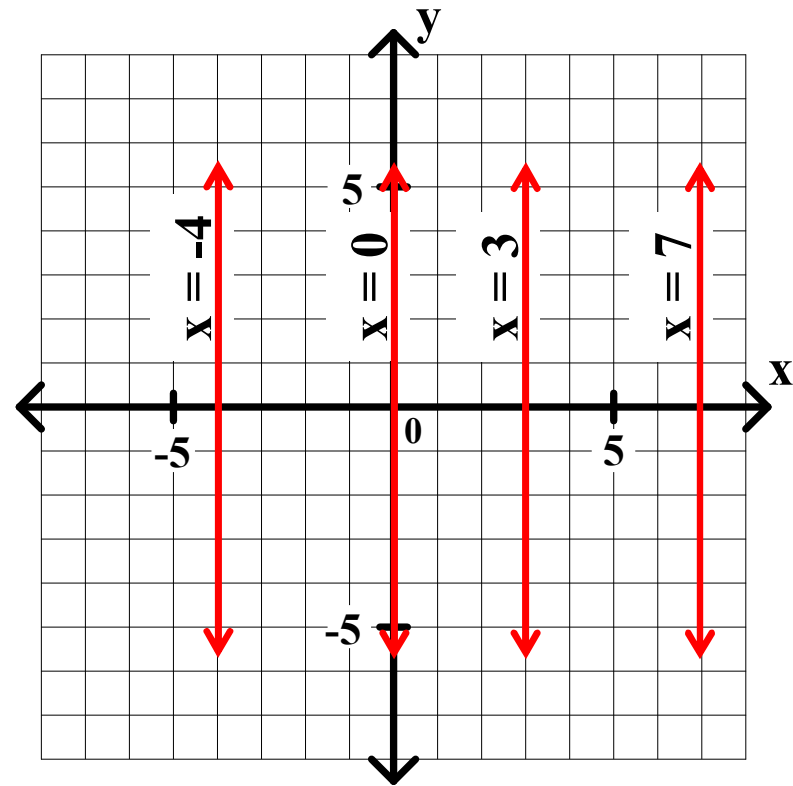
Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

Every vertical line has an equation with the form

$$x = k.$$



Algebra I Unit 7 The Equation of a Line

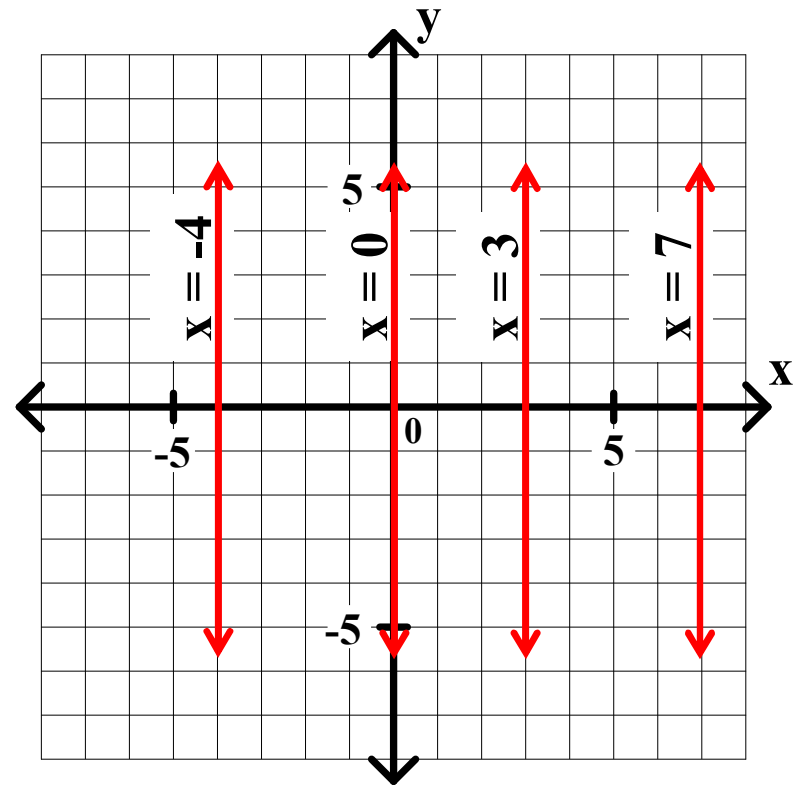
Vertical Lines

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The Slope of a Vertical Line



Algebra I Unit 7 The Equation of a Line

Vertical Lines

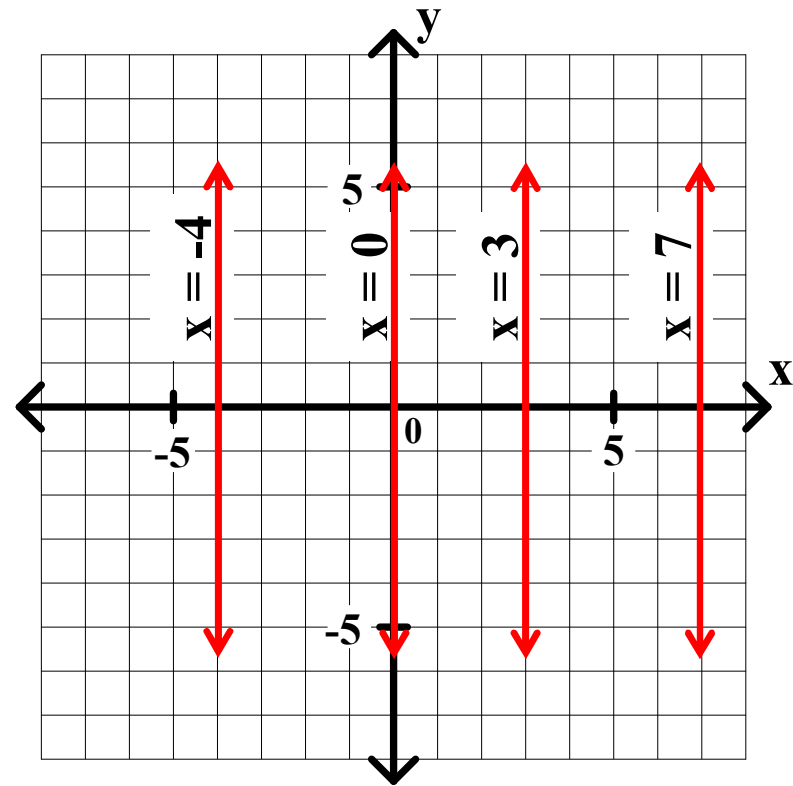
The y-axis or any line parallel to the y-axis is a vertical line.

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The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}}$$



Algebra I Unit 7 The Equation of a Line

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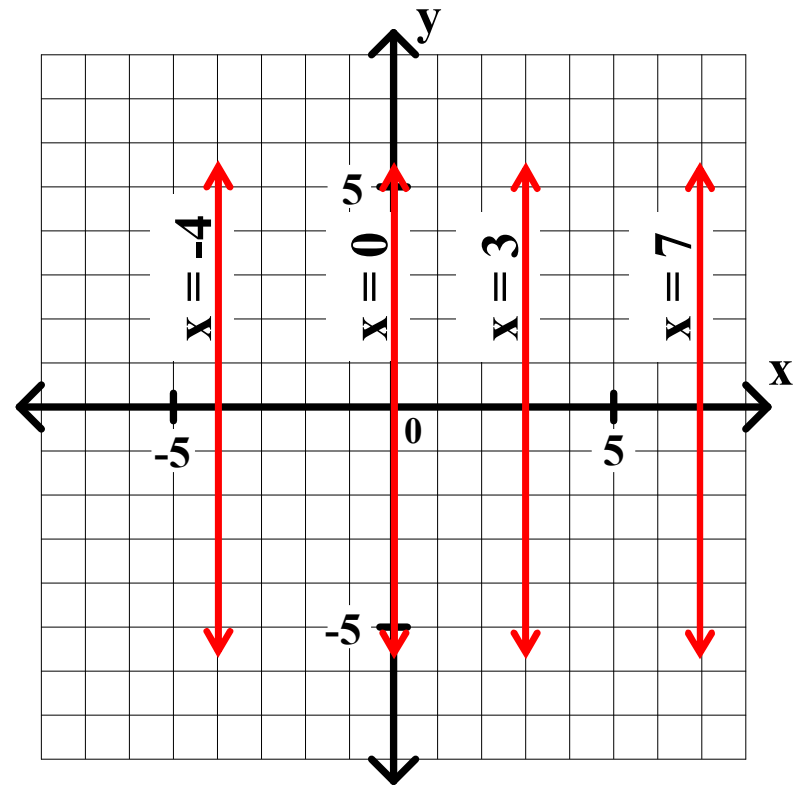
Every vertical line has an equation with the form

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The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}}$$

The run is 0 !!



Algebra I Unit 7 The Equation of a Line

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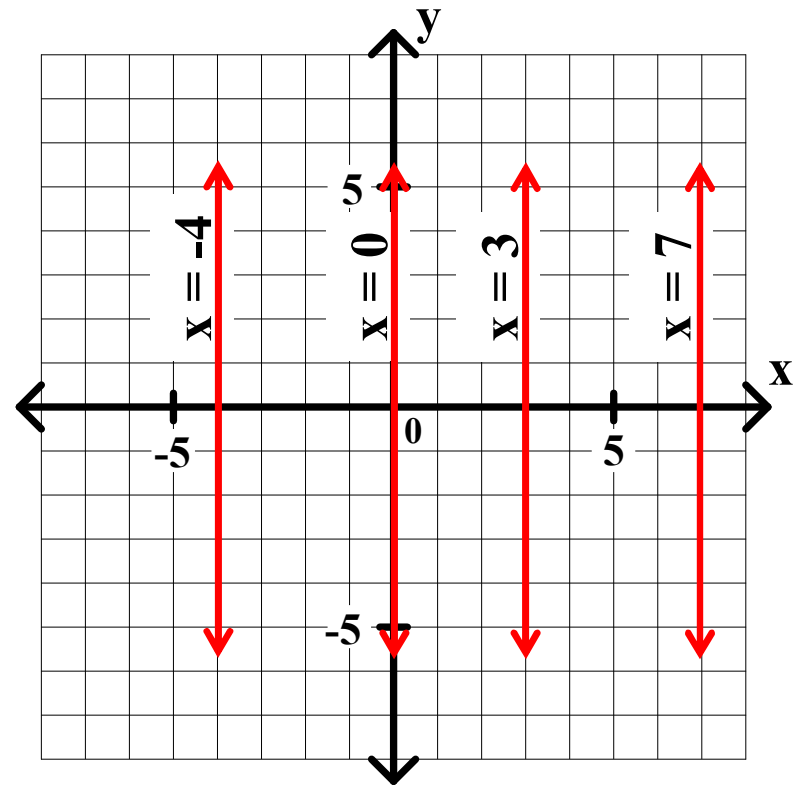
Every vertical line has an equation with the form

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The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Rise}}{0}$$

The run is 0 !!



Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

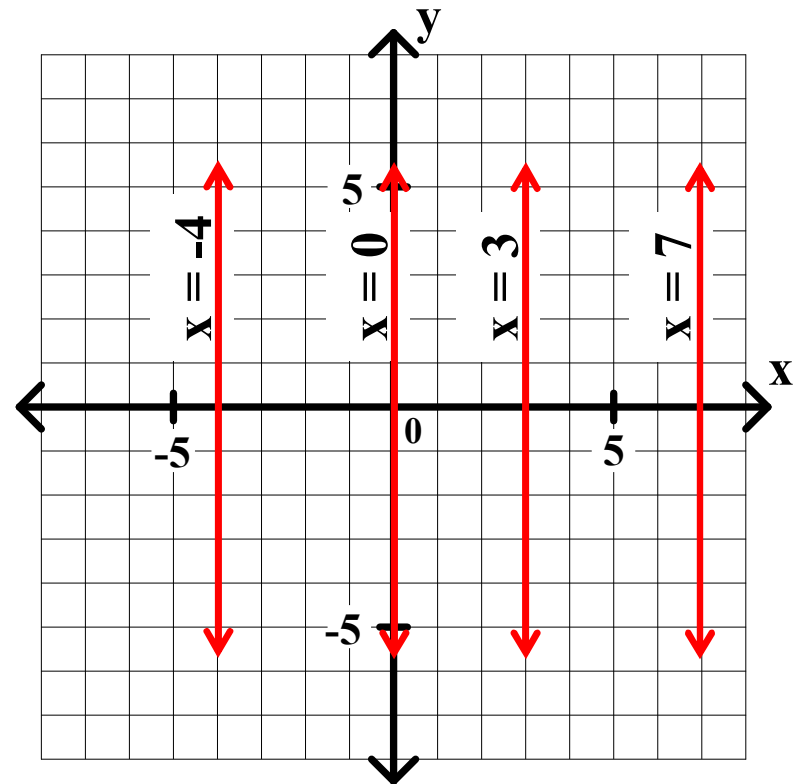
Every vertical line has an equation with the form

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The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Rise}}{0}$$

The run is 0 !! (The rise is not 0.)



Algebra I Unit 7 The Equation of a Line

Vertical Lines

The y-axis or any line parallel to the y-axis is a vertical line.

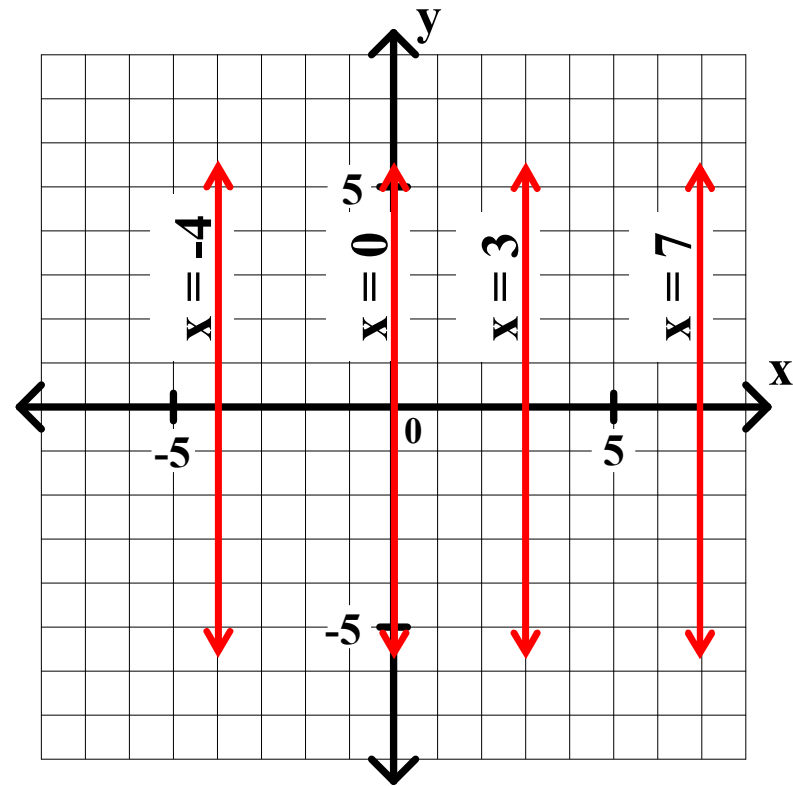
Every vertical line has an equation with the form

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The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Rise}}{0} = ?$$

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The y-axis or any line parallel to the y-axis is a vertical line.

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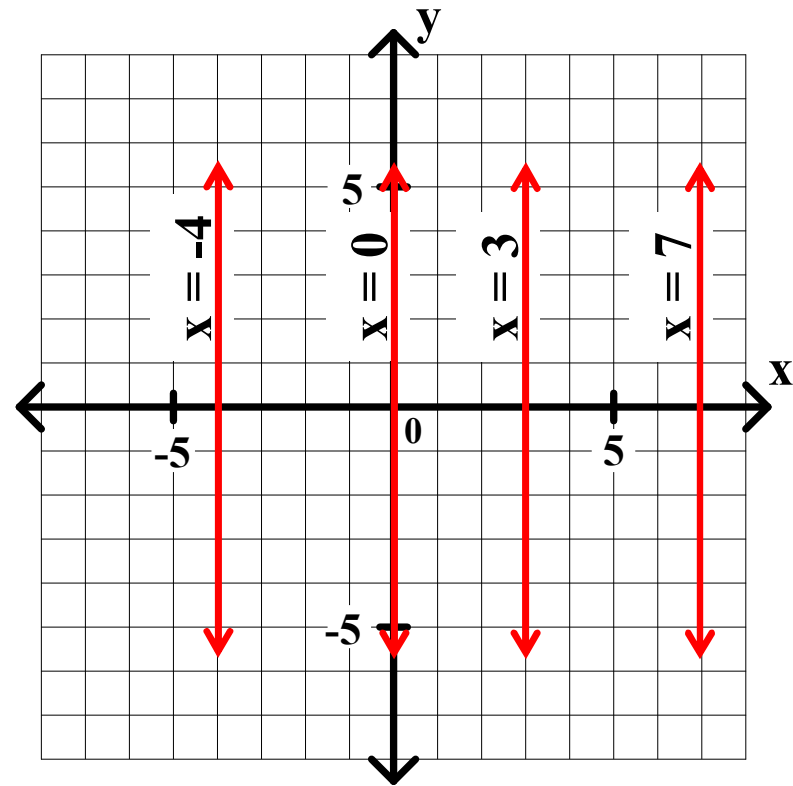
$$x = k.$$

The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Rise}}{0} = ?$$

The run is 0 !! (The rise is not 0.)

Division by 0 is undefined !!



Algebra I Unit 7 The Equation of a Line

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The y-axis or any line parallel to the y-axis is a vertical line.

Every vertical line has an equation with the form

$$x = k.$$

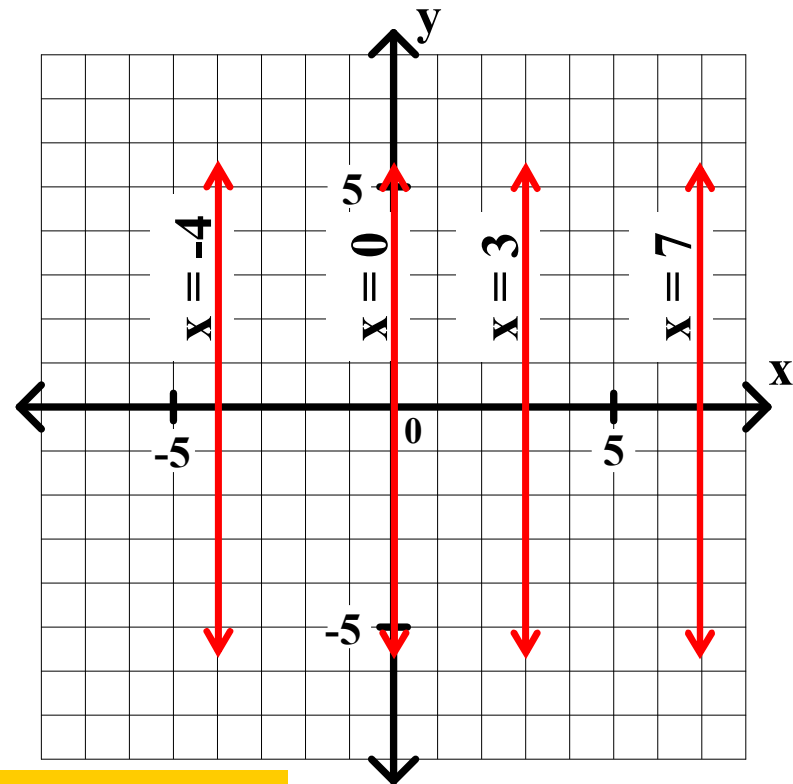
The Slope of a Vertical Line

$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Rise}}{0} = ?$$

The run is 0 !! (The rise is not 0.)

Division by 0 is undefined !!

The slope of every vertical line is undefined.



Algebra I Unit 7 The Equation of a Line

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Every vertical line has an equation with the form

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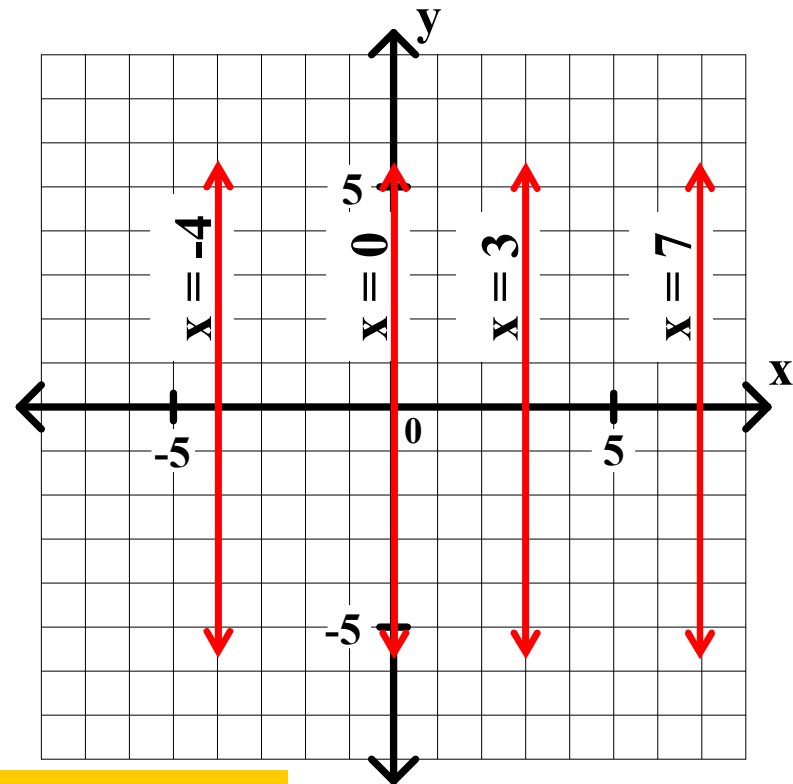
$$\text{Slope} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Rise}}{0} = ?$$

The run is 0 !! (The rise is not 0.)

Division by 0 is undefined !!

The slope of every vertical line is undefined.

It is common to say that a vertical line has **no slope**.



Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

- 1. The horizontal line through (2, 3). _____**

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

1. The **horizontal** line through $(2, 3)$. _____

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

1. The **horizontal** line through (2, 3). _____

$$y = k$$

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Algebra I Class Worksheet #1 Unit 7

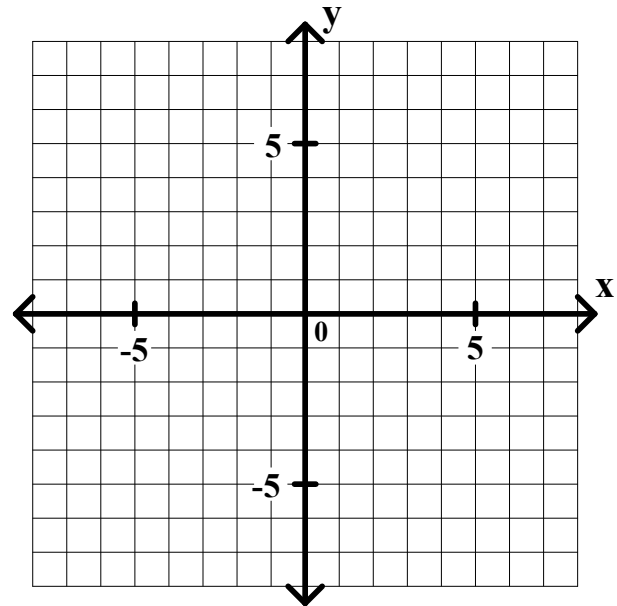
Find the equation of each of the following lines.

1. The **horizontal** line through $(2, 3)$. $y = 3$
- $y = k$ 

Algebra I Class Worksheet #1 Unit 7

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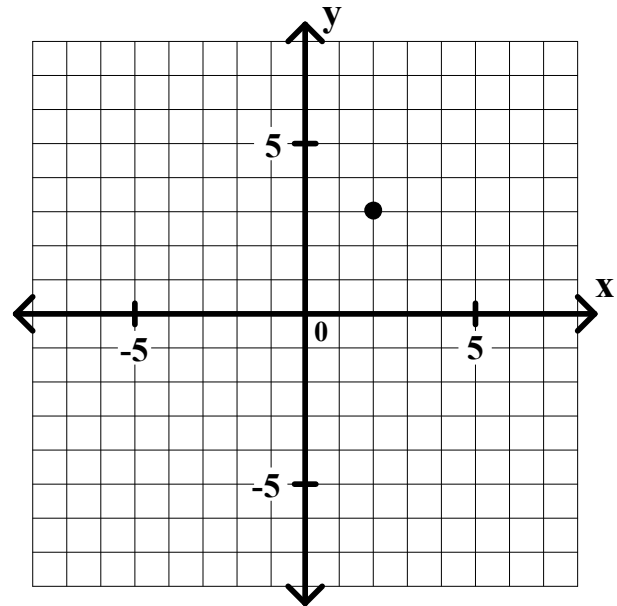
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Algebra I Class Worksheet #1 Unit 7

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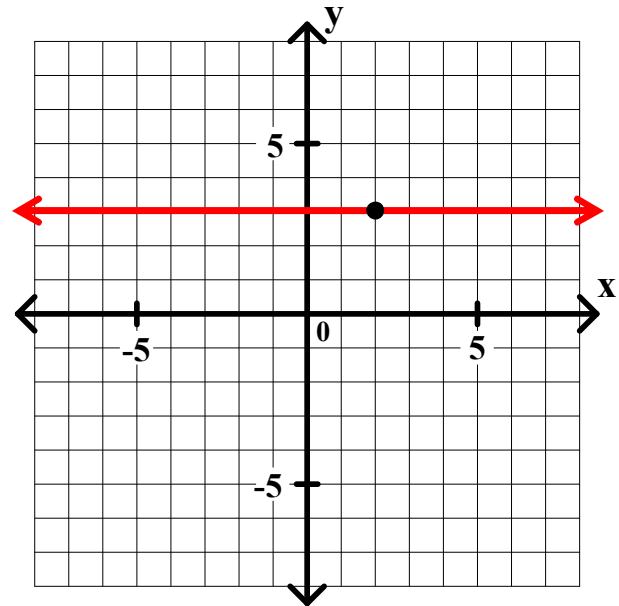
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Algebra I Class Worksheet #1 Unit 7

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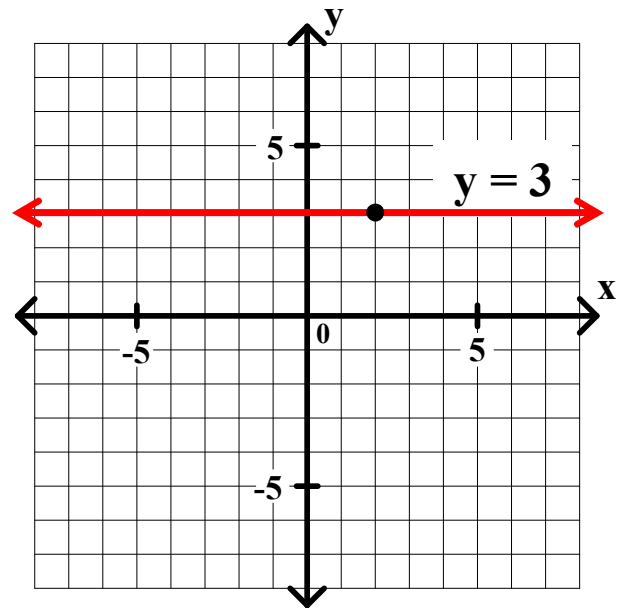
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Algebra I Class Worksheet #1 Unit 7

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2. The vertical line through (2, 3). _____

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2. The vertical line through (2, 3). _____

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Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

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$$y = k$$

2. The vertical line through (2, 3). $x = 2$

$$x = k$$



Algebra I Class Worksheet #1 Unit 7

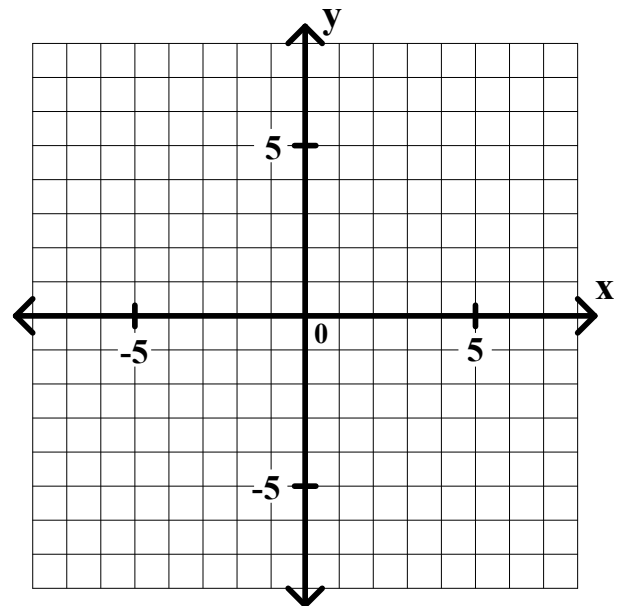
Find the equation of each of the following lines.

1. The horizontal line through $(2, 3)$. $y = 3$

$$y = k$$

2. The vertical line through $(2, 3)$. $x = 2$

$$x = k$$



Algebra I Class Worksheet #1 Unit 7

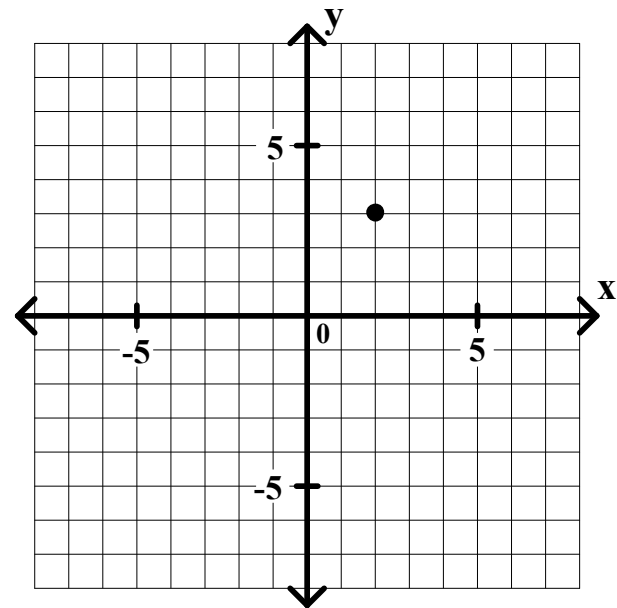
Find the equation of each of the following lines.

1. The horizontal line through $(2, 3)$. $y = 3$

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$$x = k$$



Algebra I Class Worksheet #1 Unit 7

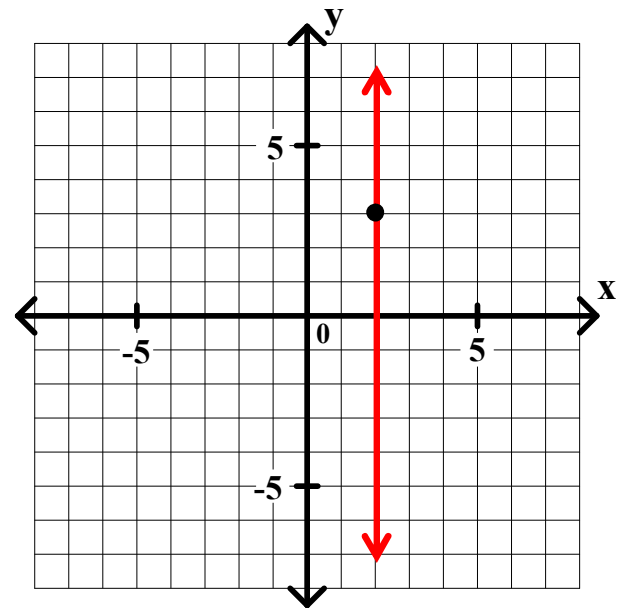
Find the equation of each of the following lines.

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$$y = k$$

2. The vertical line through $(2, 3)$. $x = 2$

$$x = k$$



Algebra I Class Worksheet #1 Unit 7

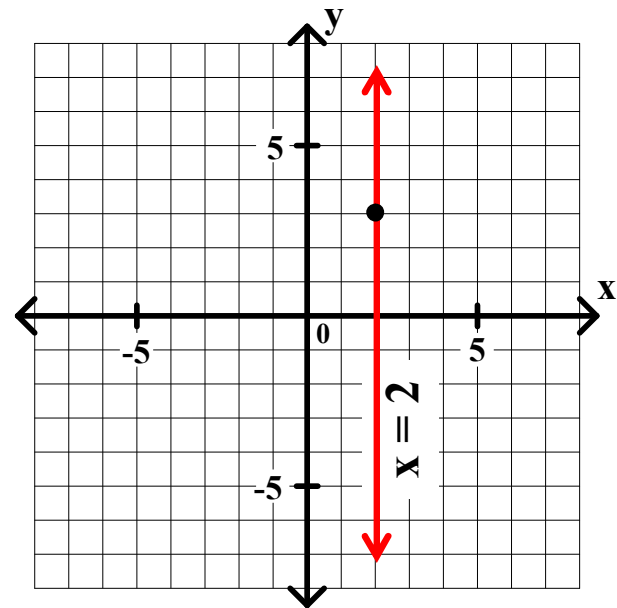
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Algebra I Class Worksheet #1 Unit 7

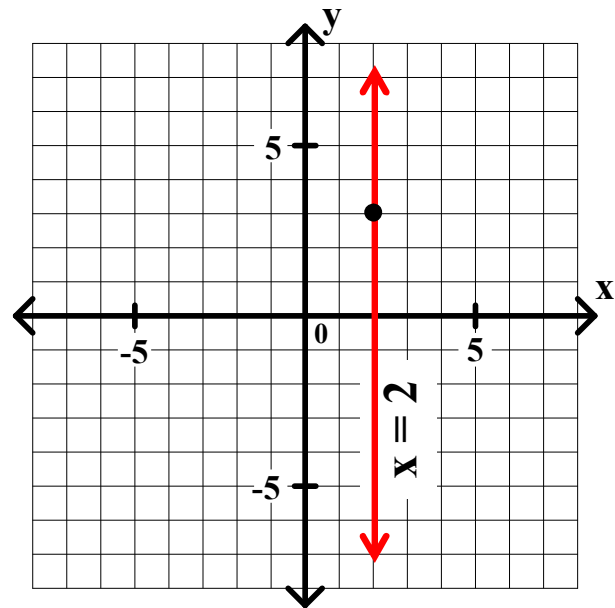
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Algebra I Class Worksheet #1 Unit 7

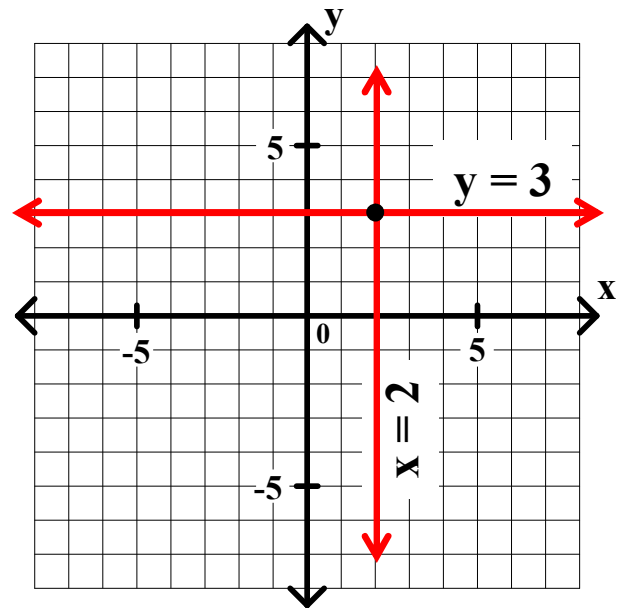
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$$y = k$$

2. The vertical line through $(2, 3)$. $x = 2$

$$x = k$$



Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. _____

Algebra I Class Worksheet #1 Unit 7

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Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. _____

horizontal line

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. _____

horizontal line $\rightarrow y = k$

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3. The line through $(-3, 5)$ with slope 0. _____

horizontal line $\rightarrow y = k$

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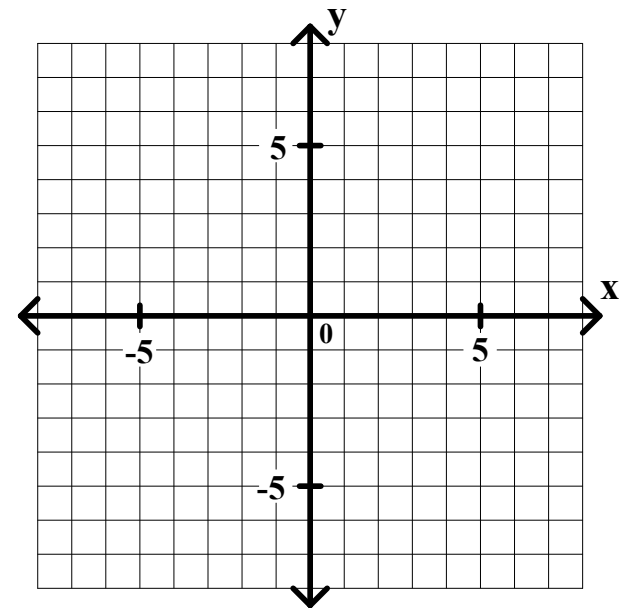
$$\underline{y = 5}$$

horizontal line $\rightarrow y = k$

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

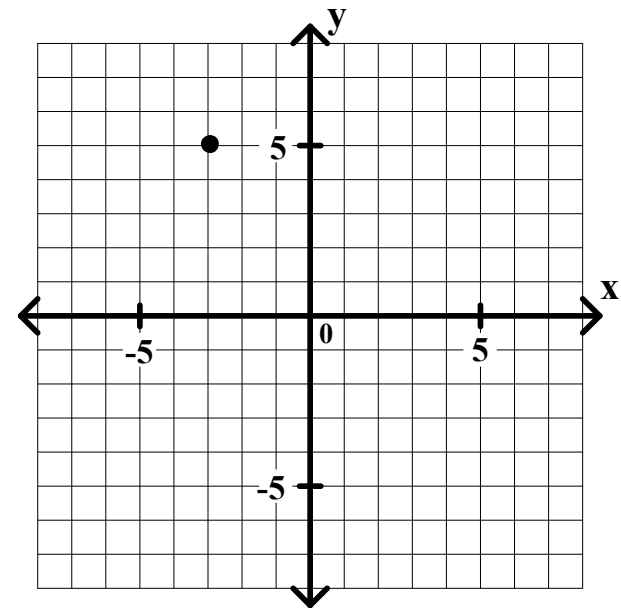
3. The line through $(-3, 5)$ with slope 0. $y = 5$
- horizontal line $\rightarrow y = k$



Algebra I Class Worksheet #1 Unit 7

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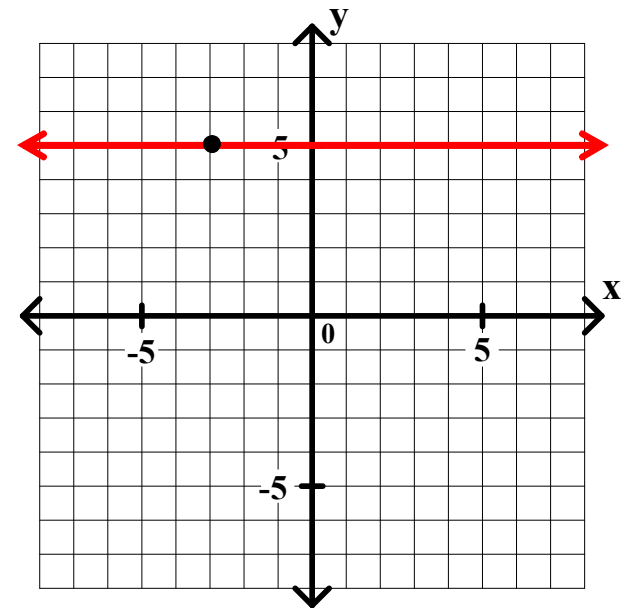
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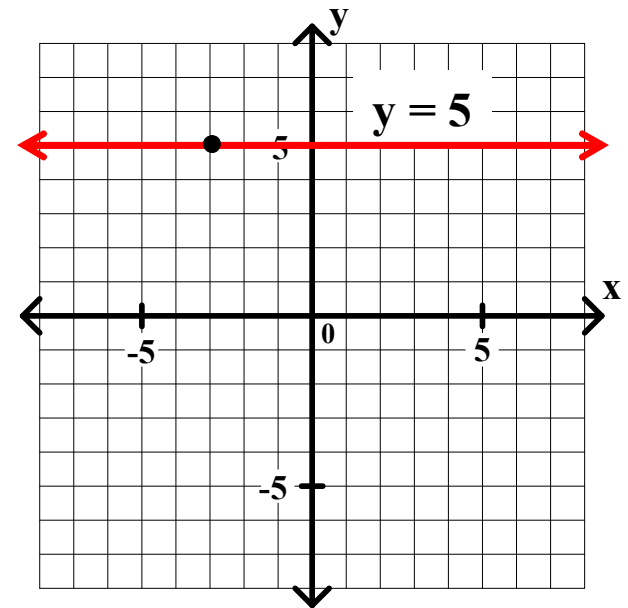
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Algebra I Class Worksheet #1 Unit 7

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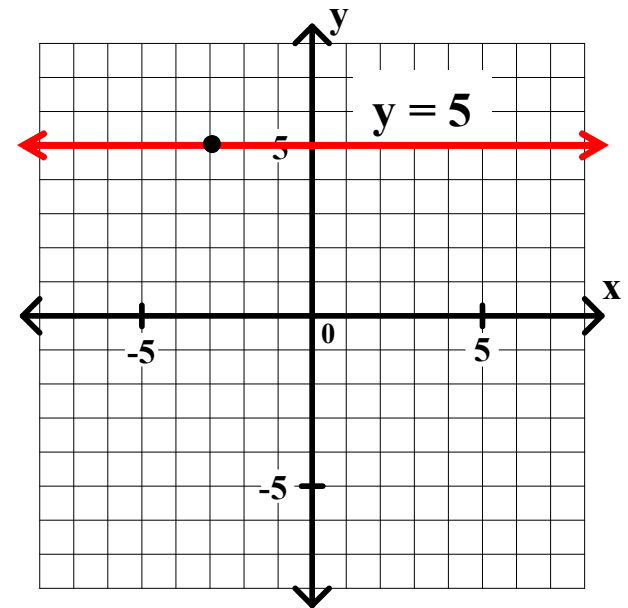


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3. The line through $(-3, 5)$ with slope 0. $y = 5$

horizontal line $\rightarrow y = k$



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Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. $y = 5$

horizontal line $\rightarrow y = k$

4. The line through $(-3, 5)$ with 'no slope'. _____

Algebra I Class Worksheet #1 Unit 7

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'no slope' \rightarrow

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. $y = 5$

horizontal line $\rightarrow y = k$

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'no slope' \rightarrow vertical line

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. $y = 5$

horizontal line $\rightarrow y = k$

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'no slope' \rightarrow vertical line

The slope is undefined !!

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

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'no slope' \rightarrow vertical line $\rightarrow x = k$

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'no slope' \rightarrow vertical line $\rightarrow x = k$

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4. The line through $(-3, 5)$ with 'no slope'. $x = -3$

'no slope' \rightarrow vertical line $\rightarrow x = k$

Algebra I Class Worksheet #1 Unit 7

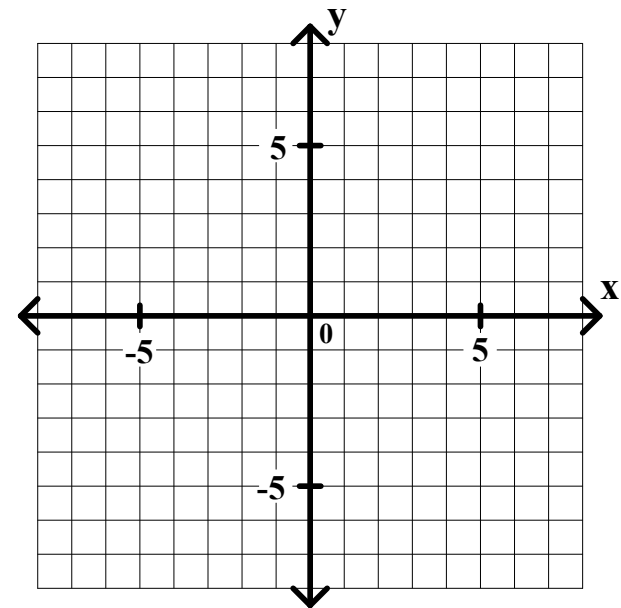
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'no slope' \rightarrow vertical line $\rightarrow x = k$



Algebra I Class Worksheet #1 Unit 7

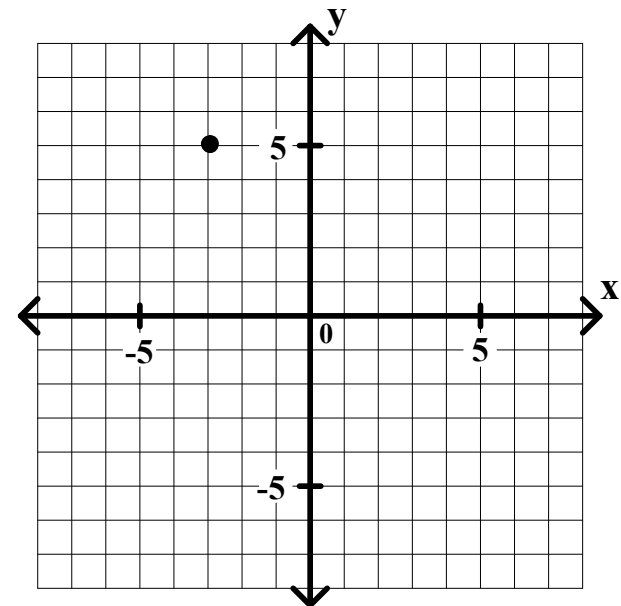
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'no slope' \rightarrow vertical line $\rightarrow x = k$



Algebra I Class Worksheet #1 Unit 7

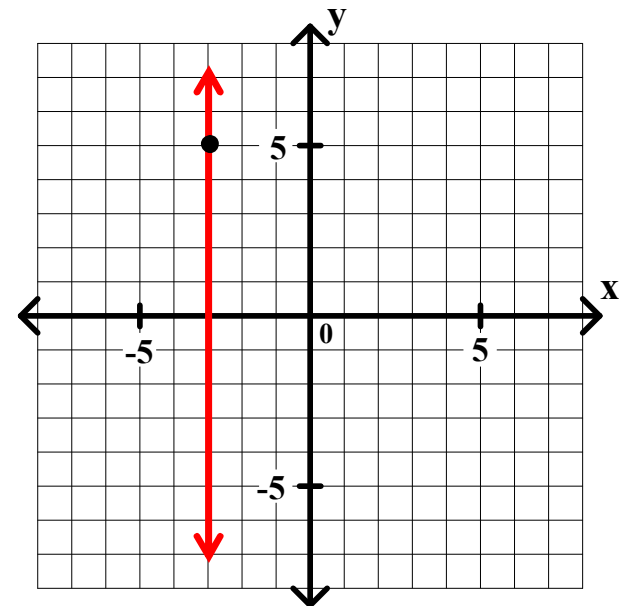
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'no slope' \rightarrow vertical line $\rightarrow x = k$



Algebra I Class Worksheet #1 Unit 7

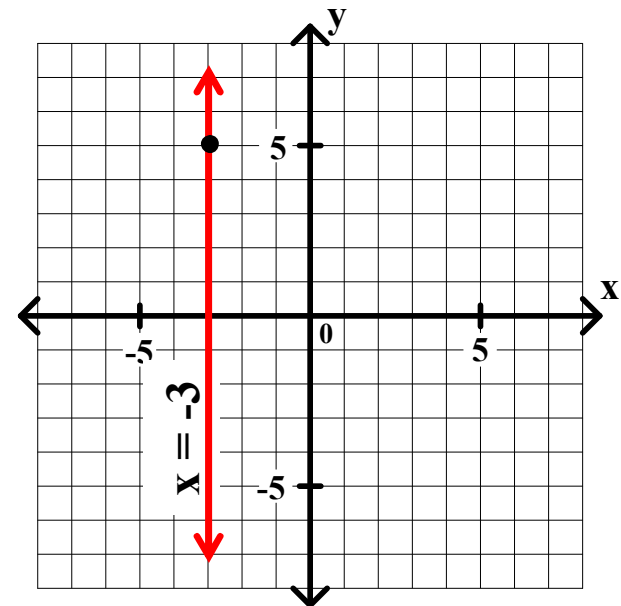
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3. The line through $(-3, 5)$ with slope 0. $y = 5$

horizontal line $\rightarrow y = k$

4. The line through $(-3, 5)$ with 'no slope'. $x = -3$

'no slope' \rightarrow vertical line $\rightarrow x = k$



Algebra I Class Worksheet #1 Unit 7

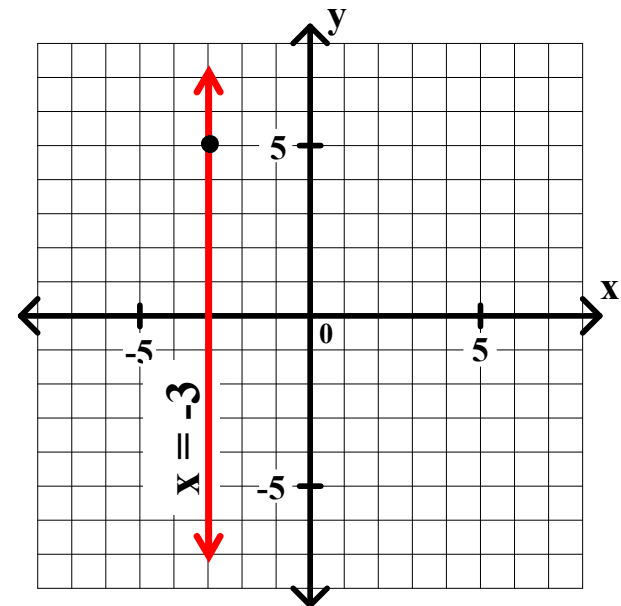
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'no slope' \rightarrow vertical line $\rightarrow x = k$



Algebra I Class Worksheet #1 Unit 7

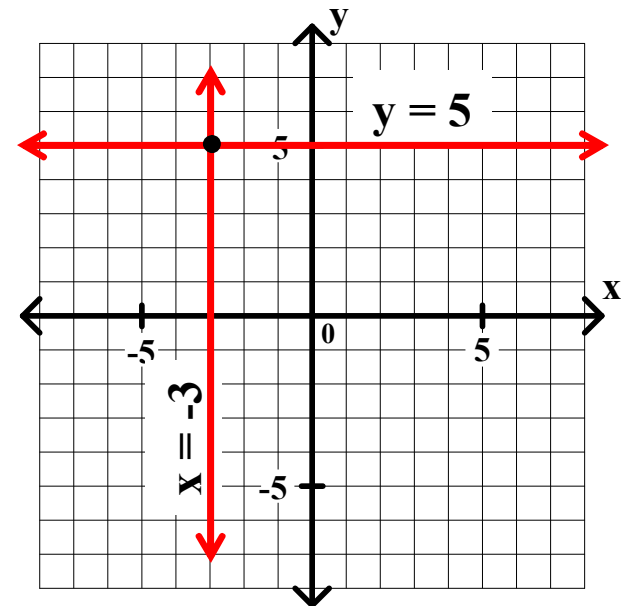
Find the equation of each of the following lines.

3. The line through $(-3, 5)$ with slope 0. $y = 5$

horizontal line $\rightarrow y = k$

4. The line through $(-3, 5)$ with 'no slope'. $x = -3$

'no slope' \rightarrow vertical line $\rightarrow x = k$



Algebra I Class Worksheet #1 Unit 7


Find the equation of each of the following lines.

5. The line through $(-2, -4)$ and $(3, -4)$. _____

Algebra I Class Worksheet #1 Unit 7

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Algebra I Class Worksheet #1 Unit 7

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horizontal line

Algebra I Class Worksheet #1 Unit 7

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- horizontal line $\rightarrow y = k$

Algebra I Class Worksheet #1 Unit 7

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5. The line through $(-2, -4)$ and $(3, -4)$.

$$\underline{y = -4}$$

horizontal line $\rightarrow y = k$

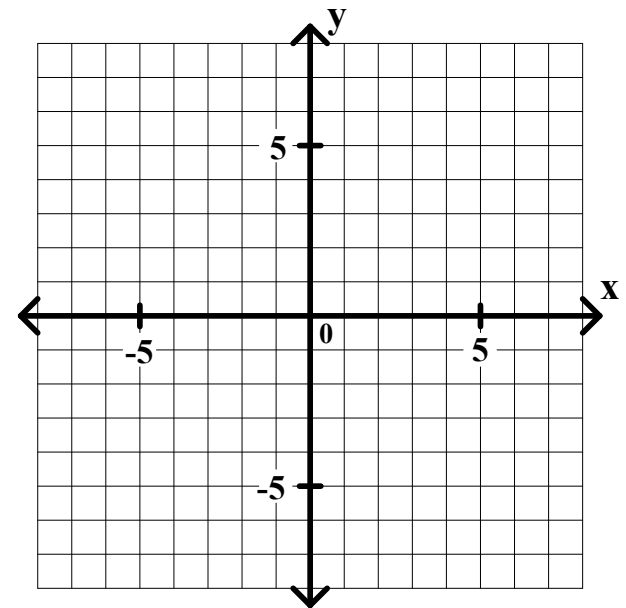
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$$\underline{y = -4}$$

horizontal line $\rightarrow y = k$



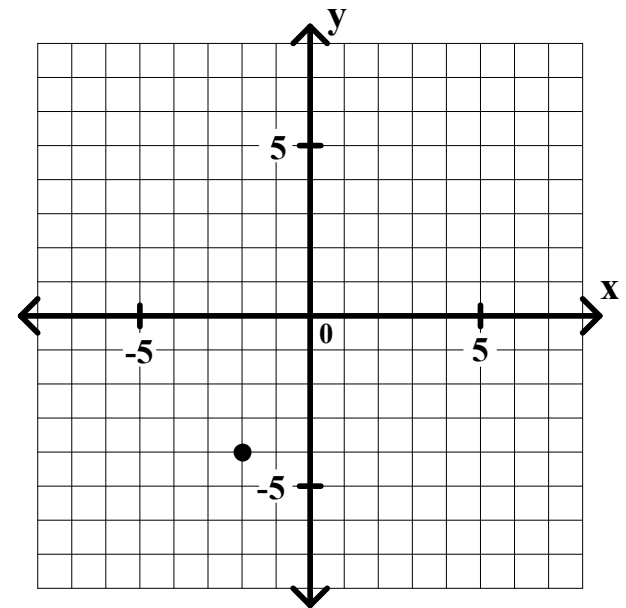
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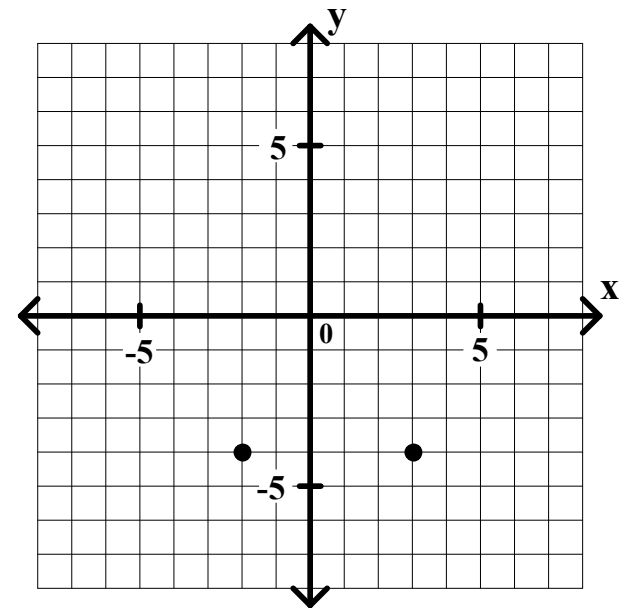
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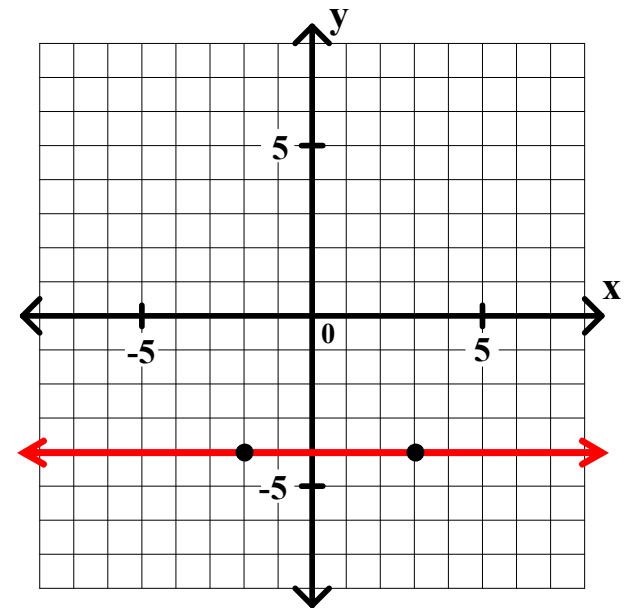
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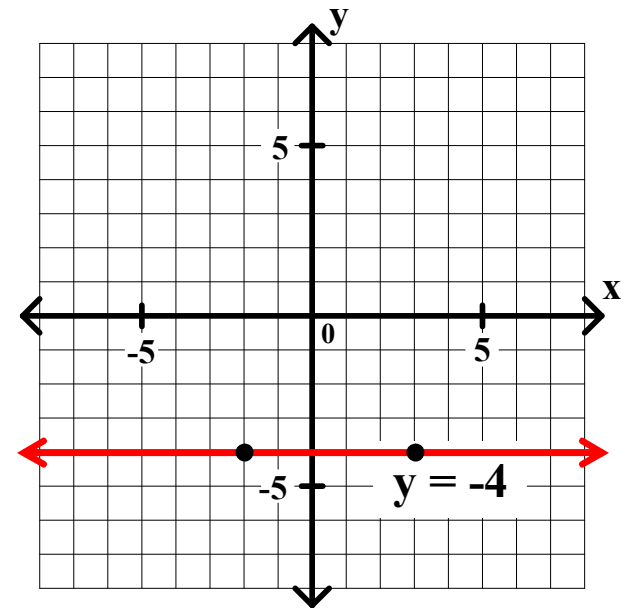
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Find the equation of each of the following lines.

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horizontal line $\rightarrow y = k$

6. The line through $(-2, -4)$ and $(-2, 5)$.

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

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6. The line through $(-2, -4)$ and $(-2, 5)$.



vertical line

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines.

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$y = -4$

horizontal line $\rightarrow y = k$

6. The line through $(-2, -4)$ and $(-2, 5)$.



vertical line $\rightarrow x = k$

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5. The line through $(-2, -4)$ and $(3, -4)$.

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horizontal line $\rightarrow y = k$

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$$\underline{x = -2}$$

vertical line $\rightarrow x = k$

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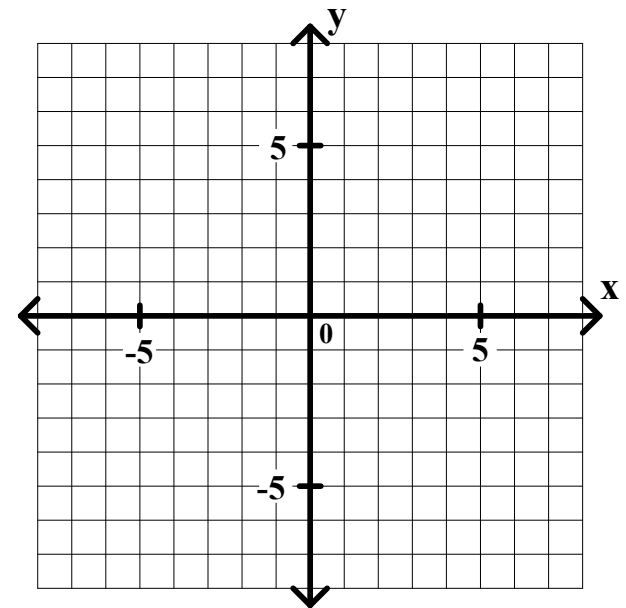
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horizontal line $\rightarrow y = k$

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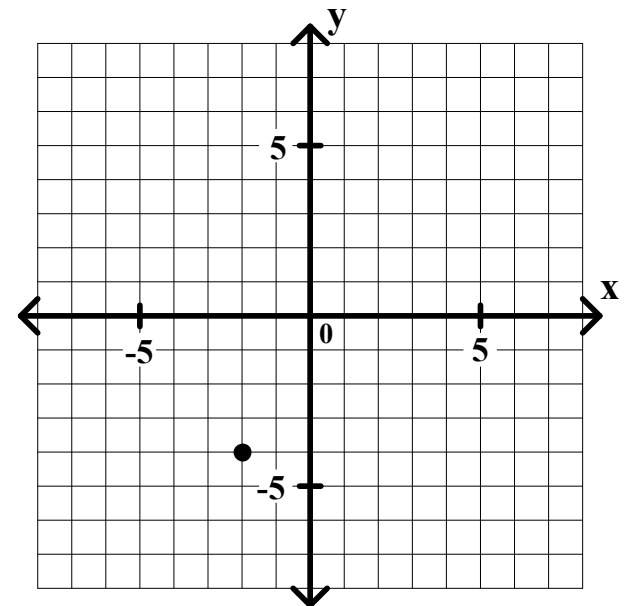
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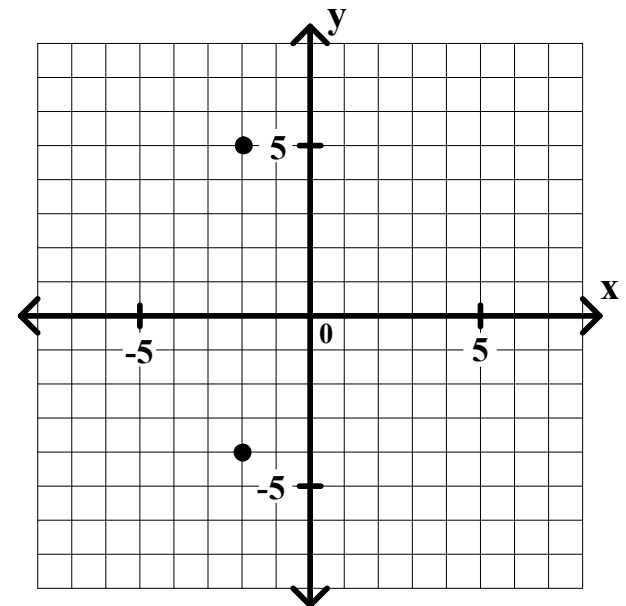
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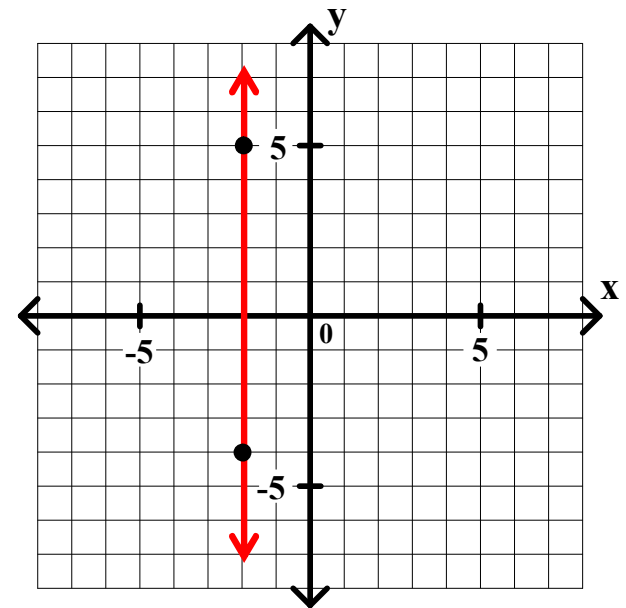
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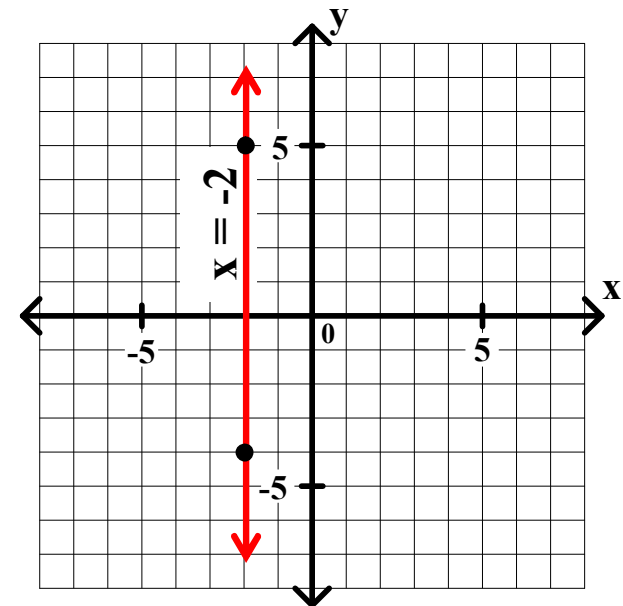
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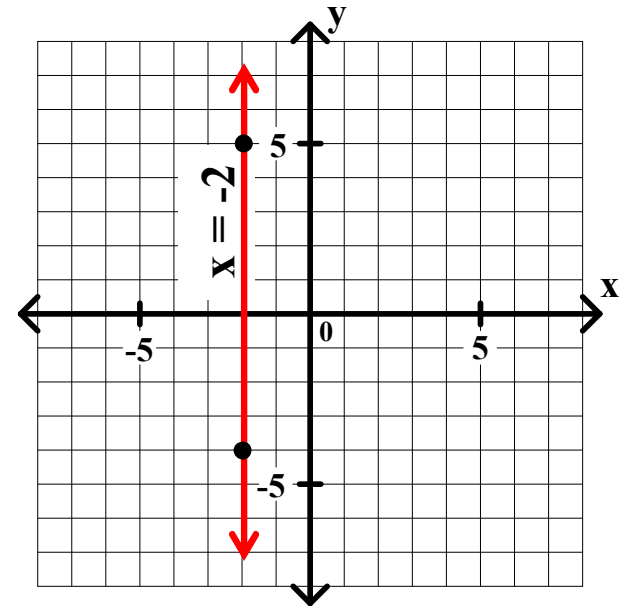
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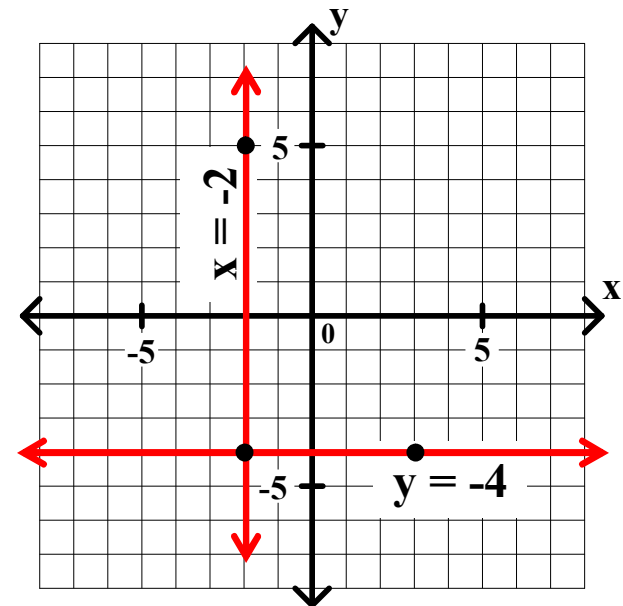
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Algebra I Unit 7 The Equation of a Line

Oblique Lines

Algebra I Unit 7 The Equation of a Line

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Any line that is neither horizontal nor vertical is an oblique line.

Algebra I Unit 7 The Equation of a Line

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Algebra I Unit 7 The Equation of a Line

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$$y = 3x + 1$$

Algebra I Unit 7 The Equation of a Line

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Any line that is neither horizontal nor vertical is an oblique line.

Here are some examples.

$$y = 3x + 1$$

↗ slope:
↘ y-intercept:

Algebra I Unit 7 The Equation of a Line

Oblique Lines

Any line that is neither horizontal nor vertical is an oblique line.

Here are some examples.

$$y = 3x + 1$$

↗ slope: 3
↘ y-intercept:

Algebra I Unit 7 The Equation of a Line

Oblique Lines

Any line that is neither horizontal nor vertical is an oblique line.

Here are some examples.

$$y = 3x + 1$$

↗ slope: 3
↘ y-intercept: 1

Algebra I Unit 7 The Equation of a Line

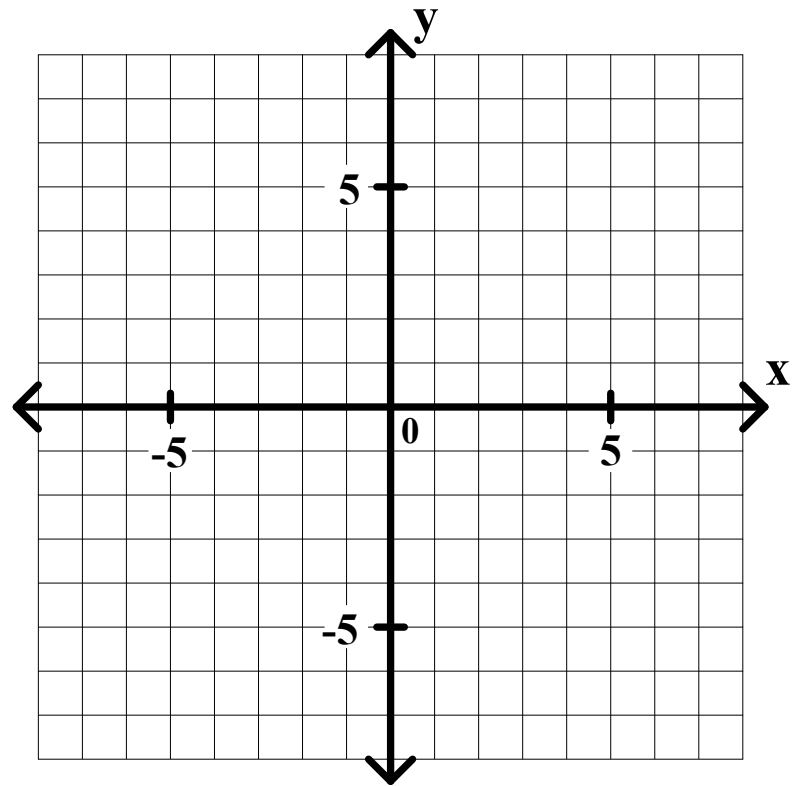
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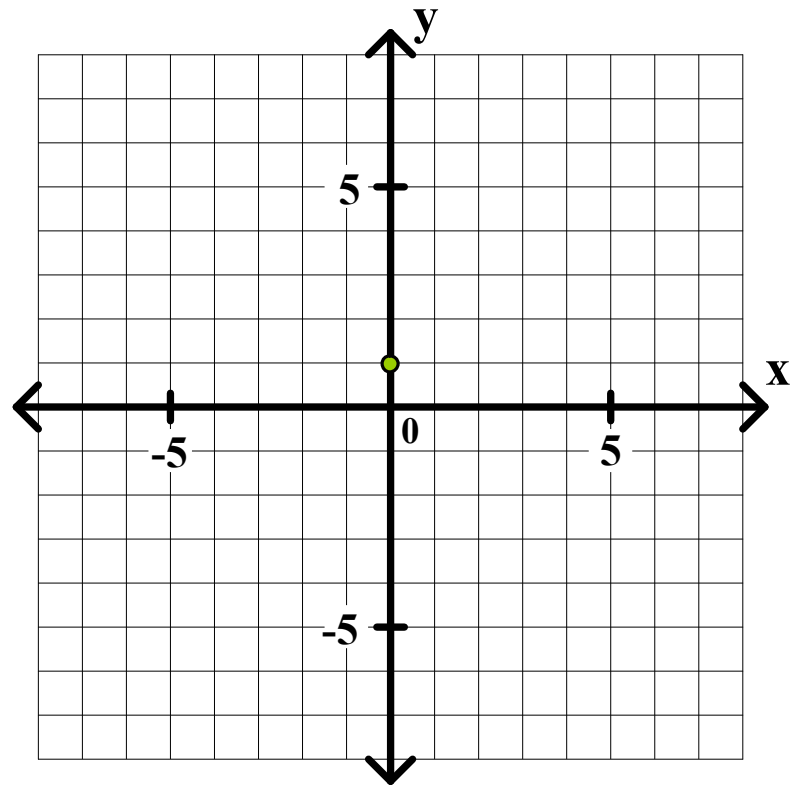
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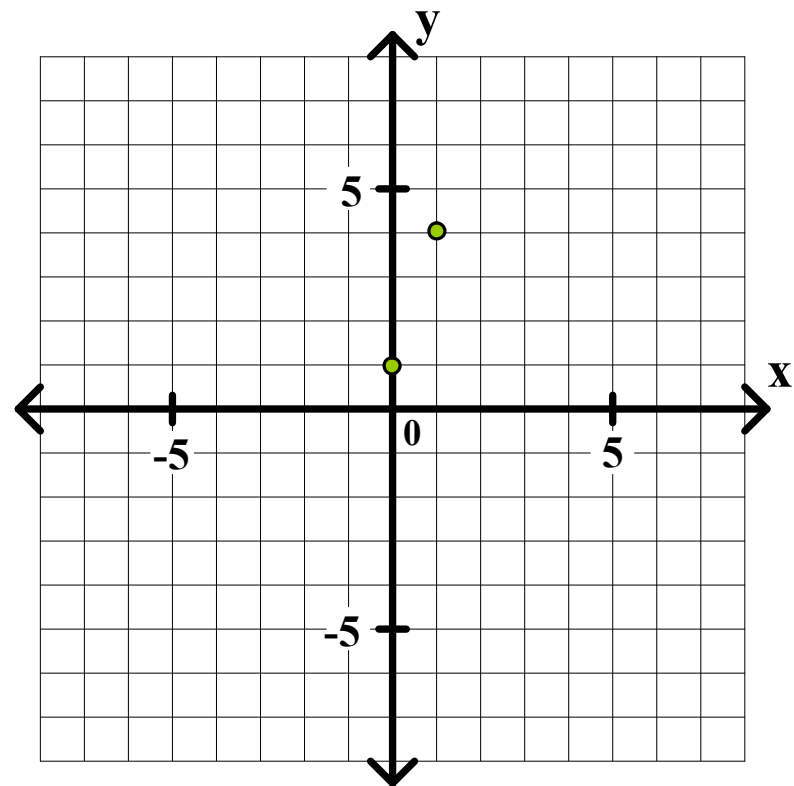
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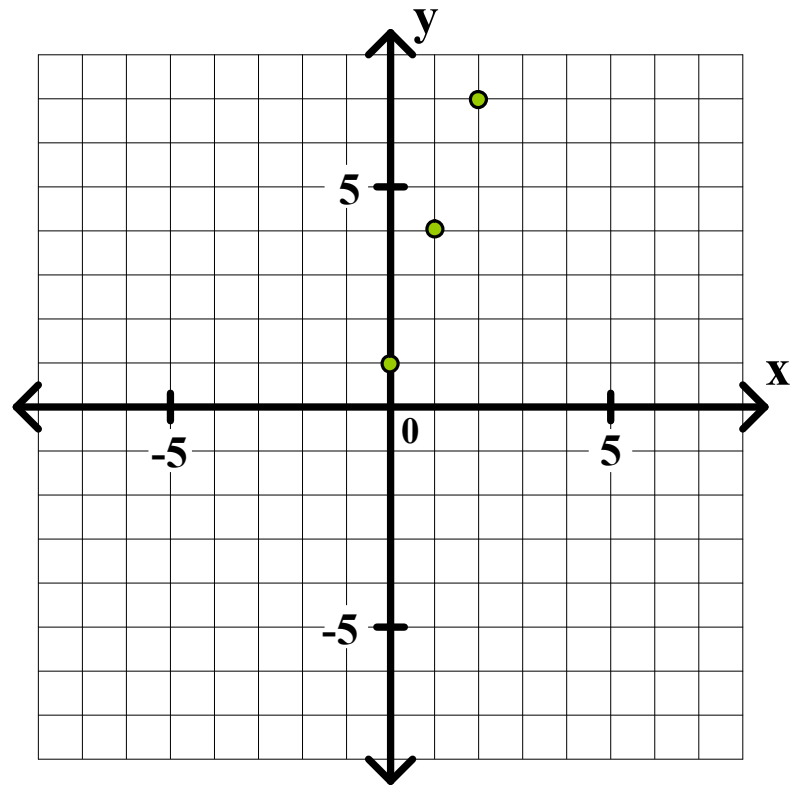
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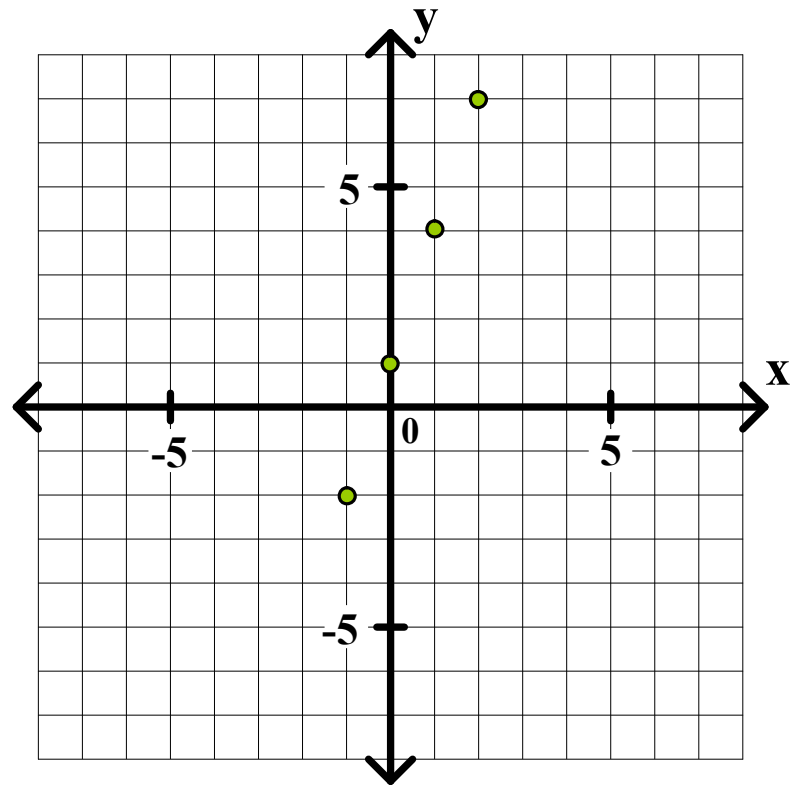
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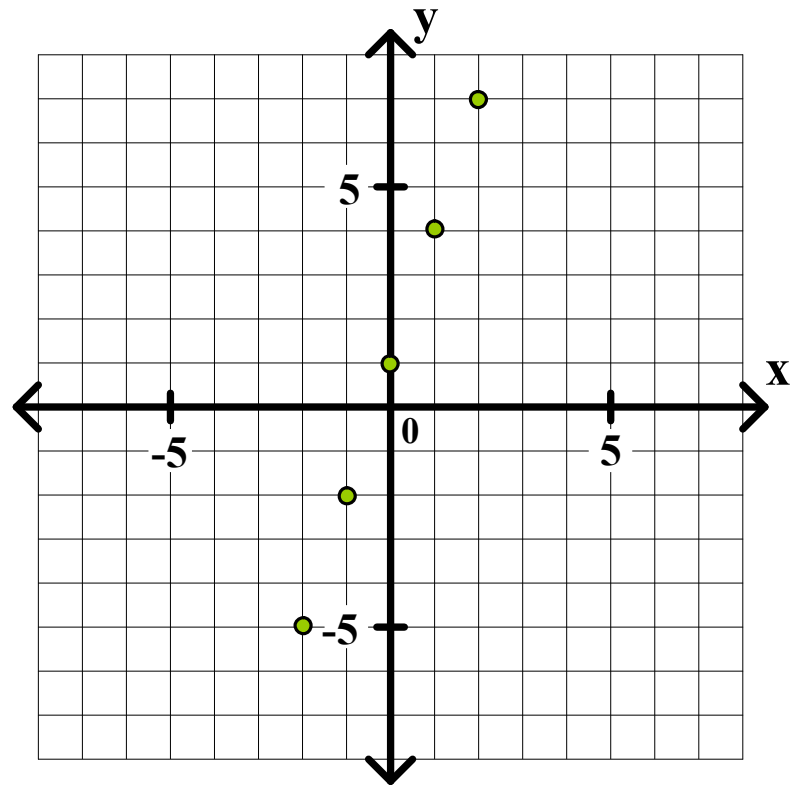
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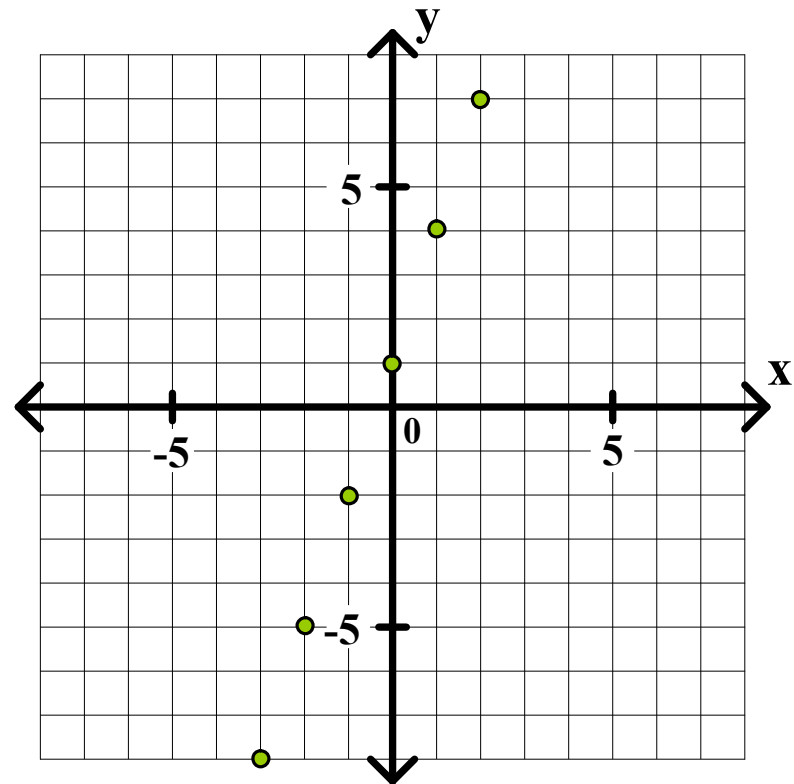
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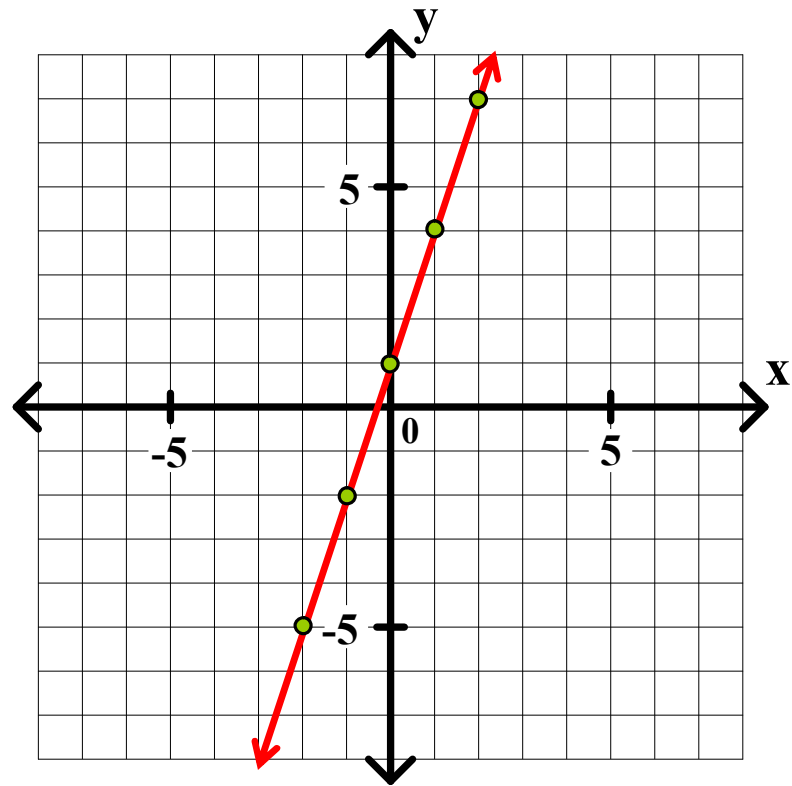
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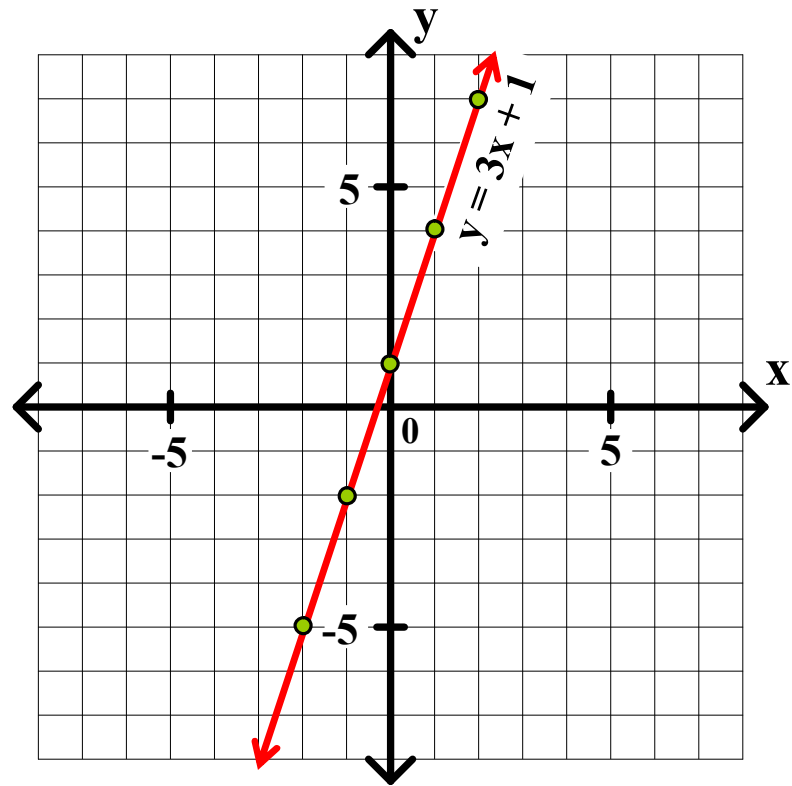
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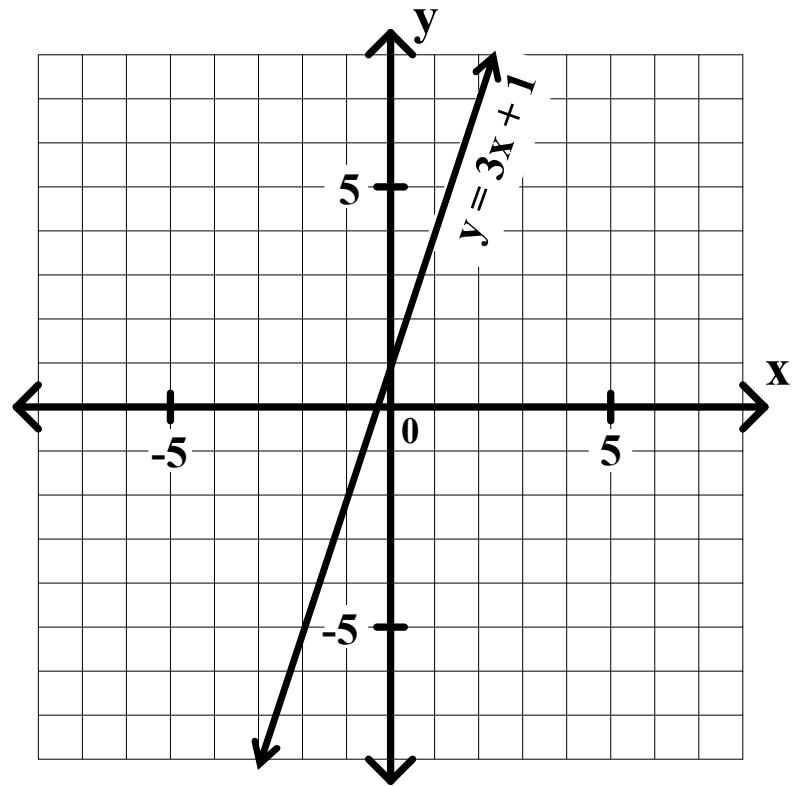
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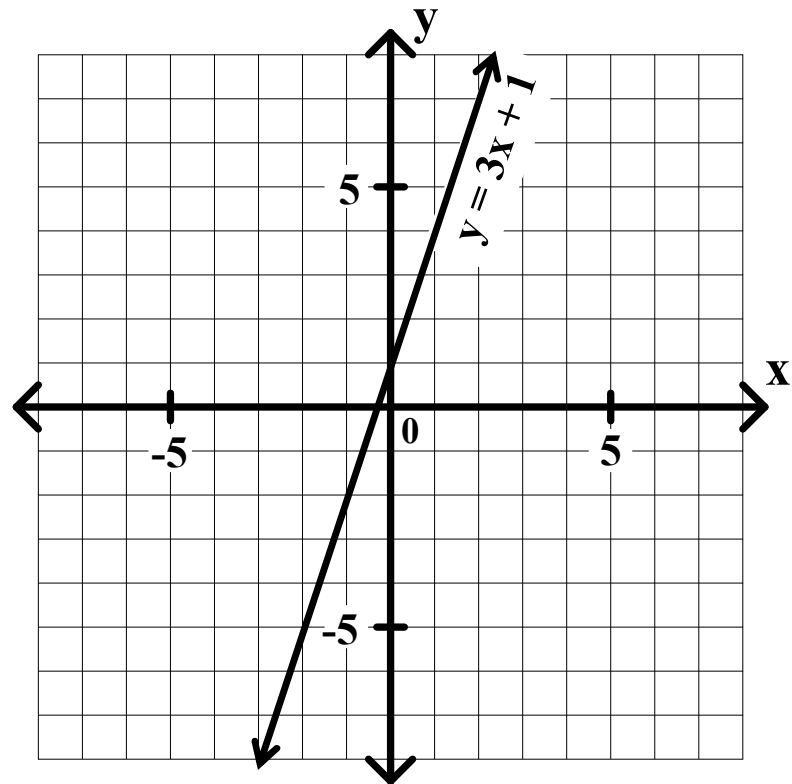
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$$y = 3x + 1 \quad \begin{array}{l} \rightarrow \text{slope: } 3 \\ \rightarrow \text{y-intercept: } 1 \end{array}$$

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



Algebra I Unit 7 The Equation of a Line

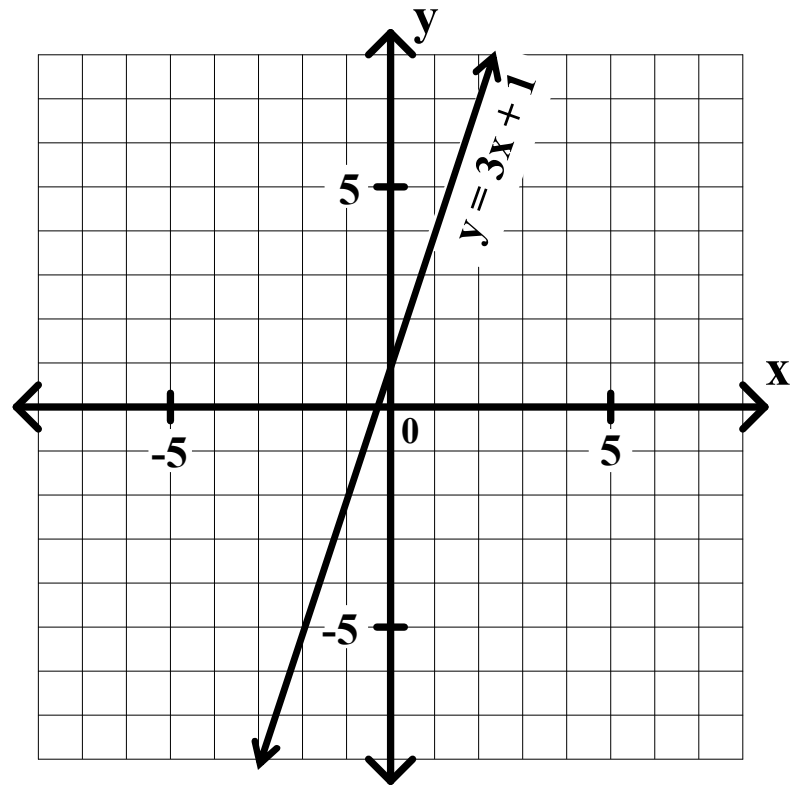
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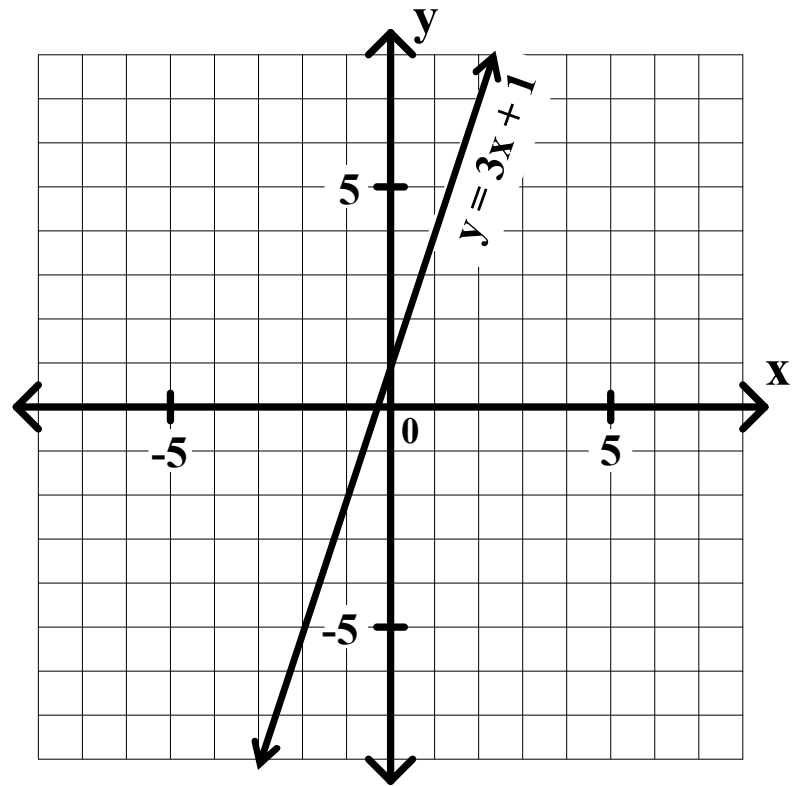
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Algebra I Unit 7 The Equation of a Line

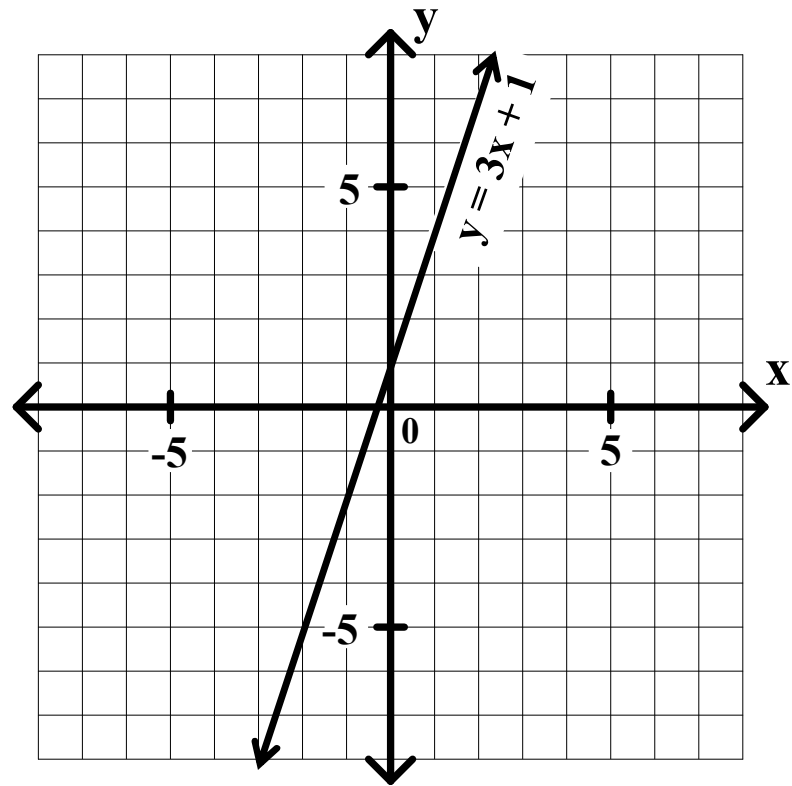
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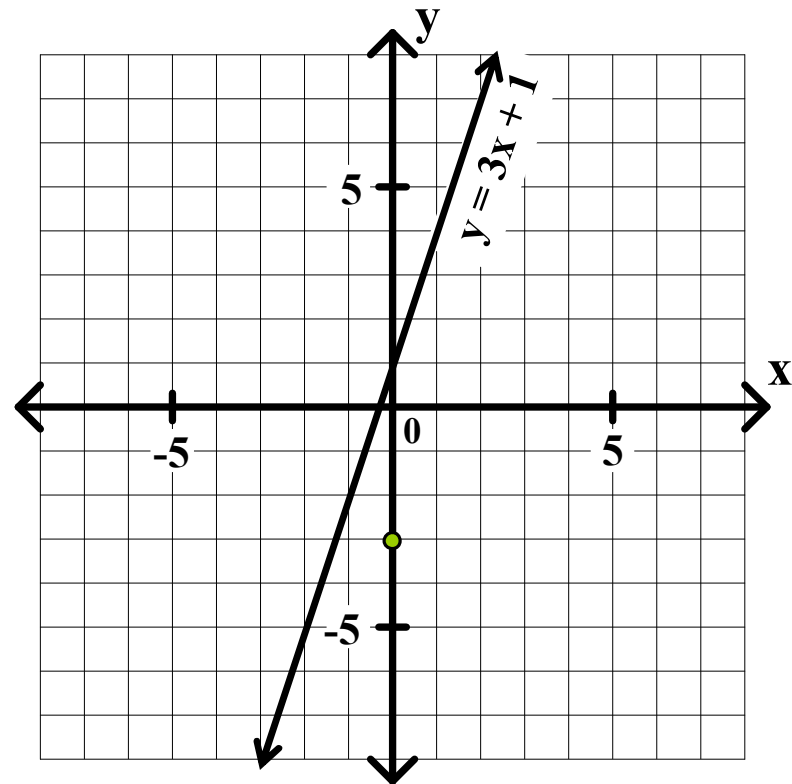
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Algebra I Unit 7 The Equation of a Line

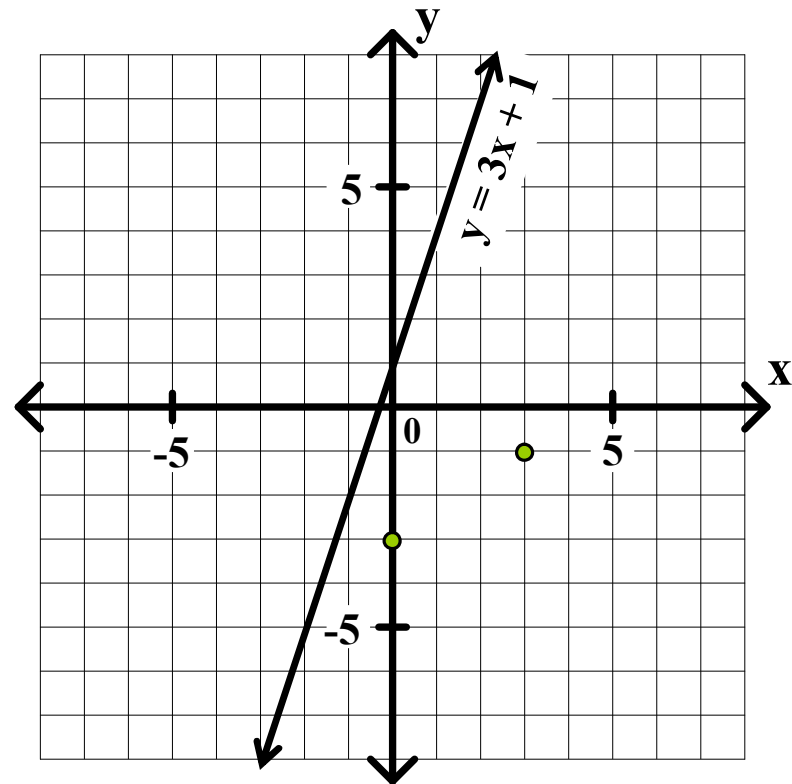
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Algebra I Unit 7 The Equation of a Line

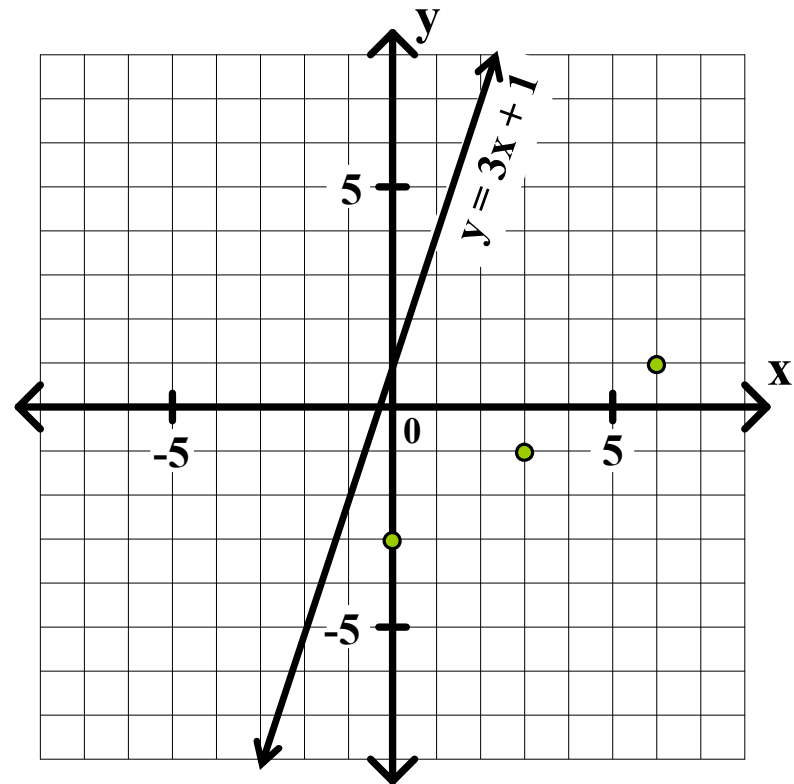
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Algebra I Unit 7 The Equation of a Line

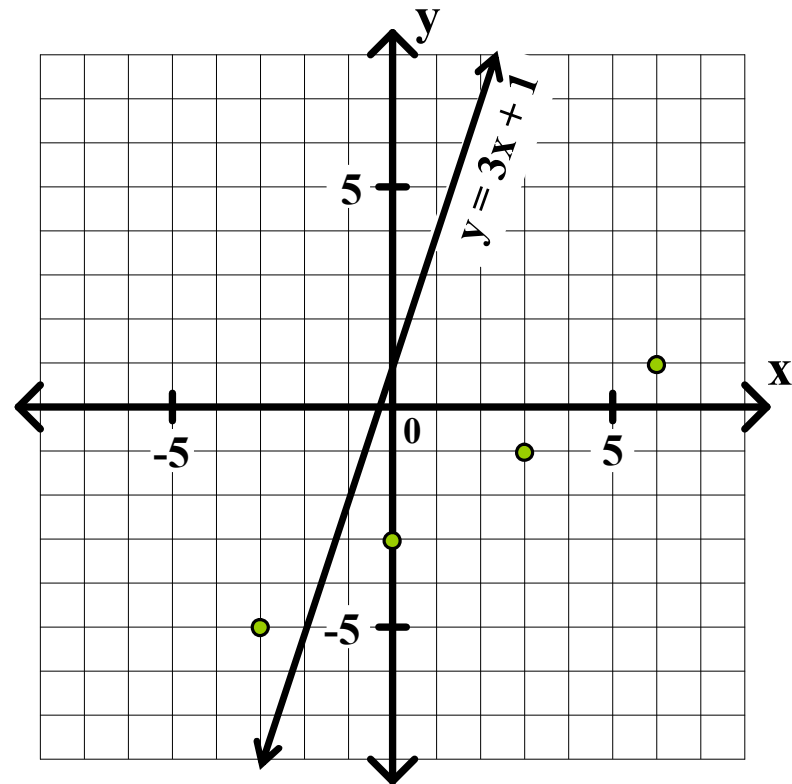
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Algebra I Unit 7 The Equation of a Line

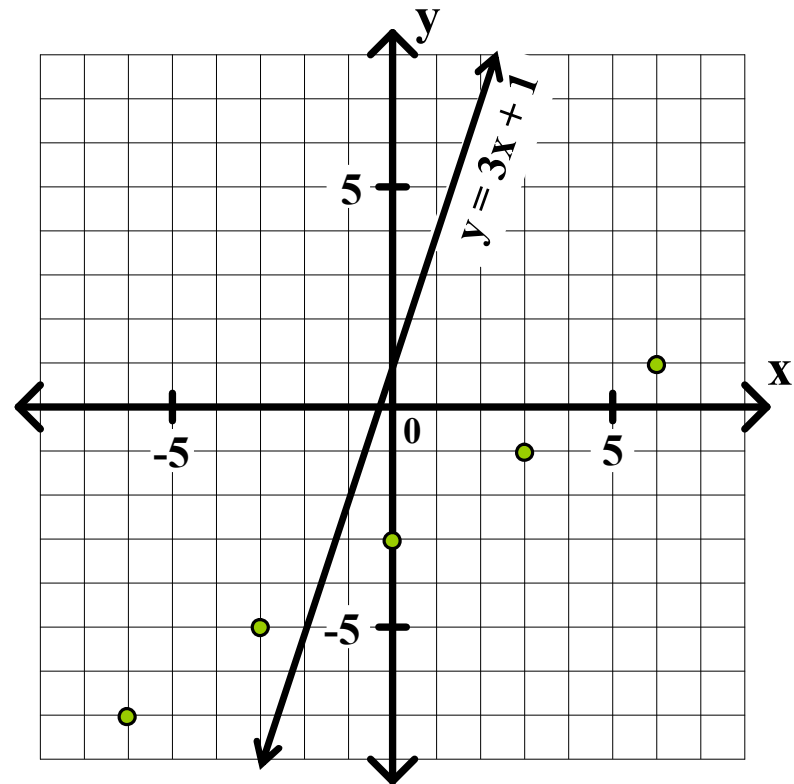
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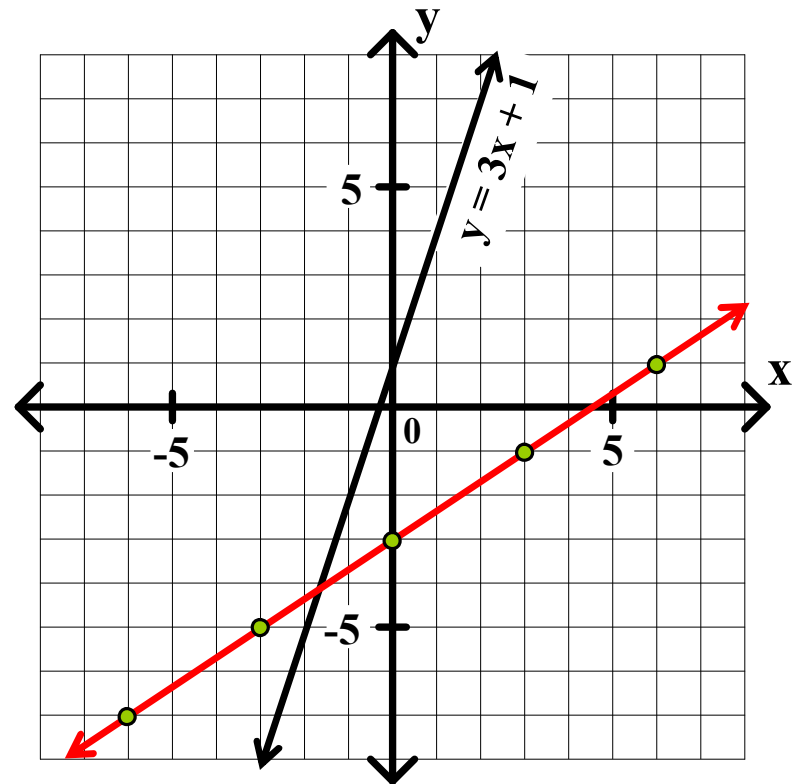
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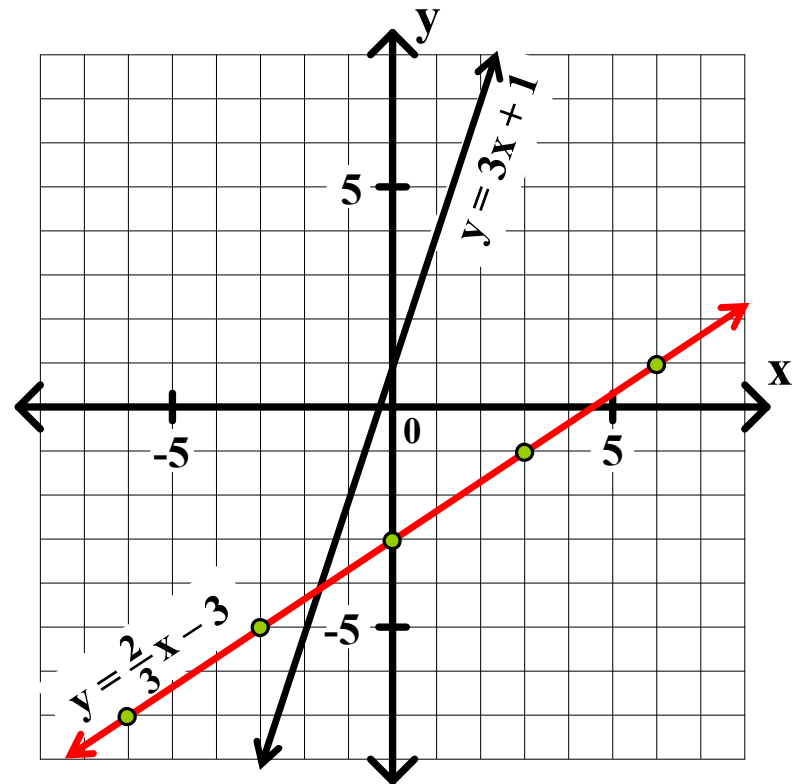
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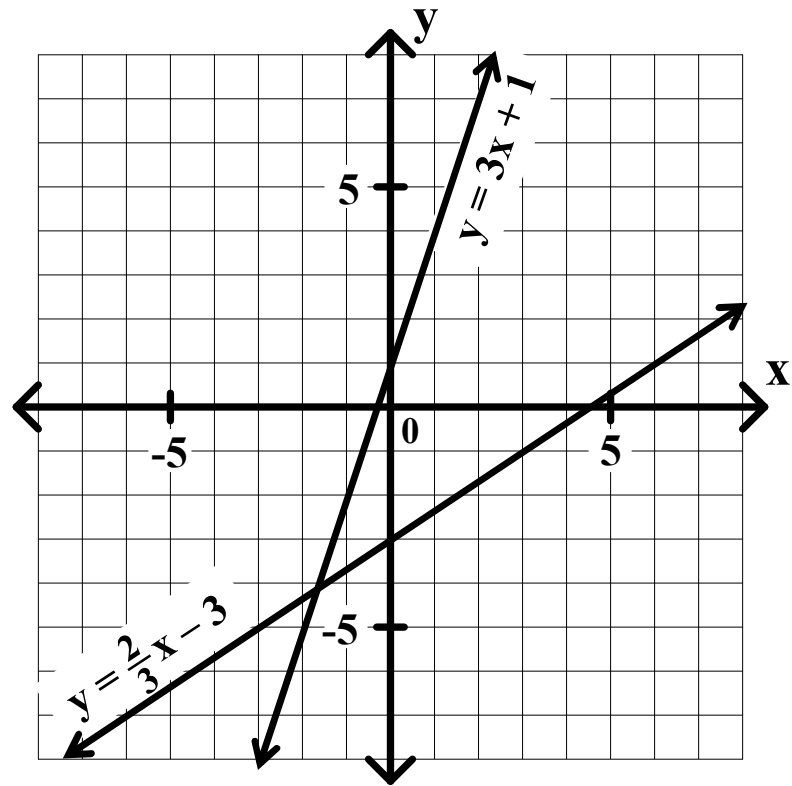
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Algebra I Unit 7 The Equation of a Line

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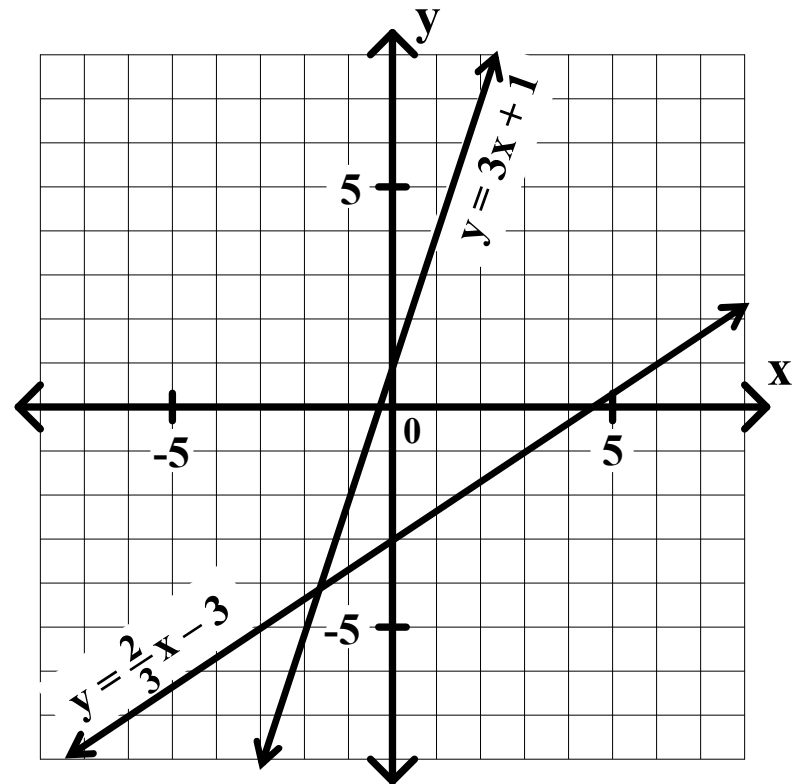
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$$y = -2x - 1$$



Algebra I Unit 7 The Equation of a Line

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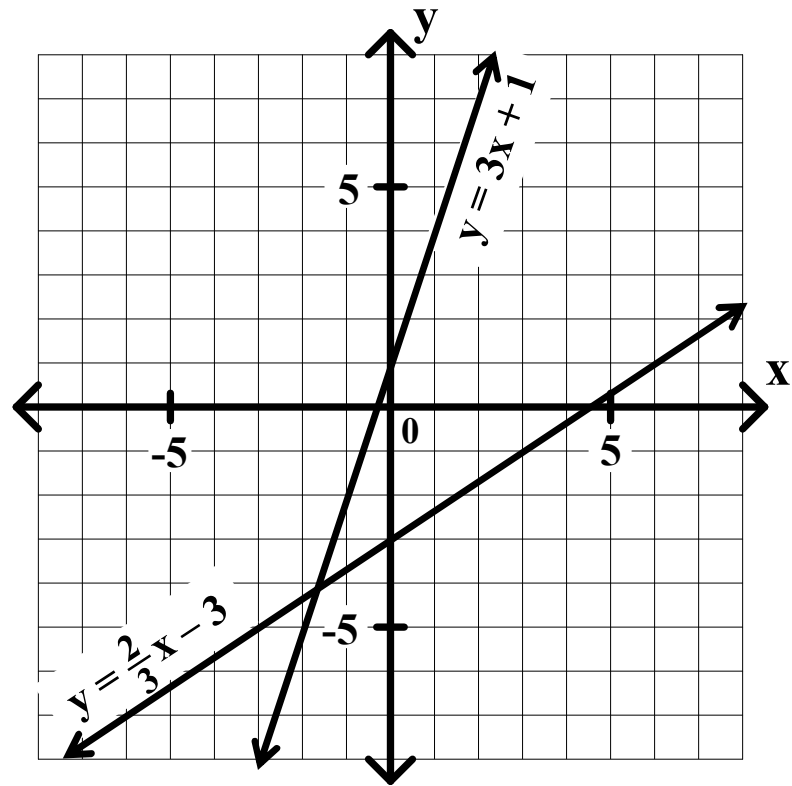
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 \rightarrow y-intercept:



Algebra I Unit 7 The Equation of a Line

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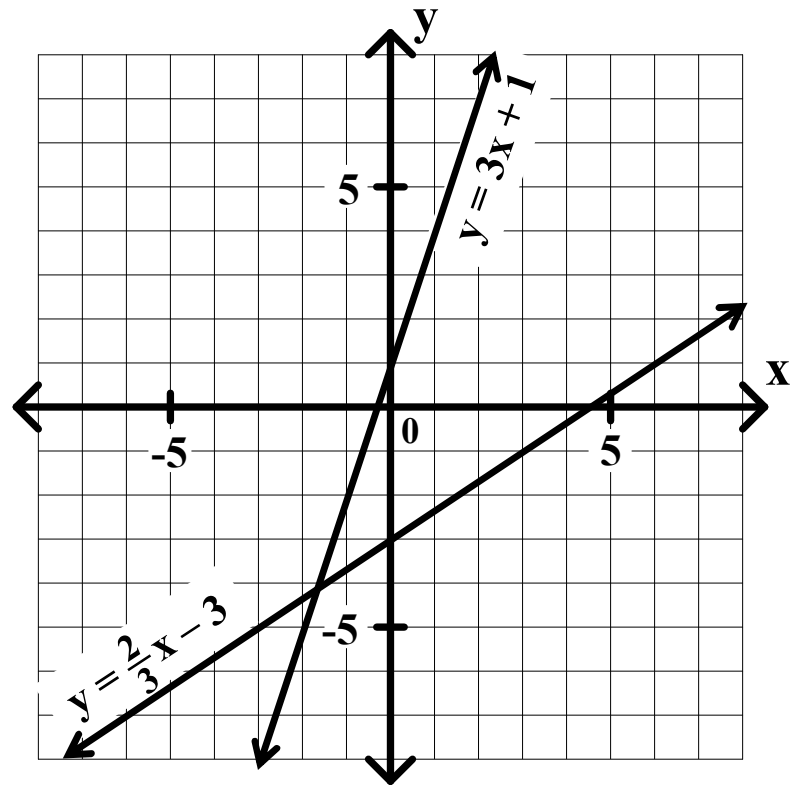
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Algebra I Unit 7 The Equation of a Line

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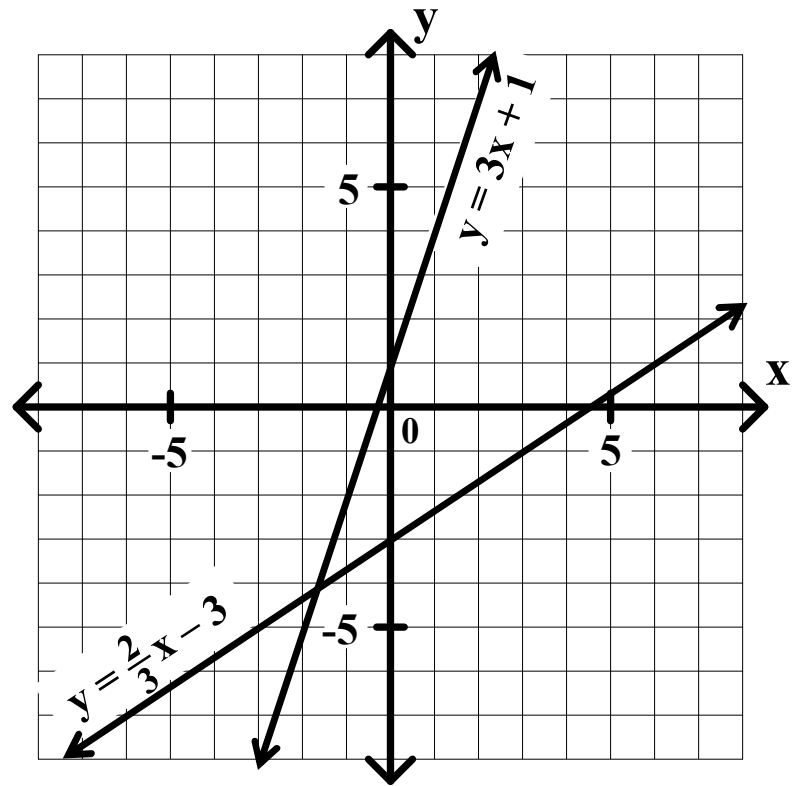
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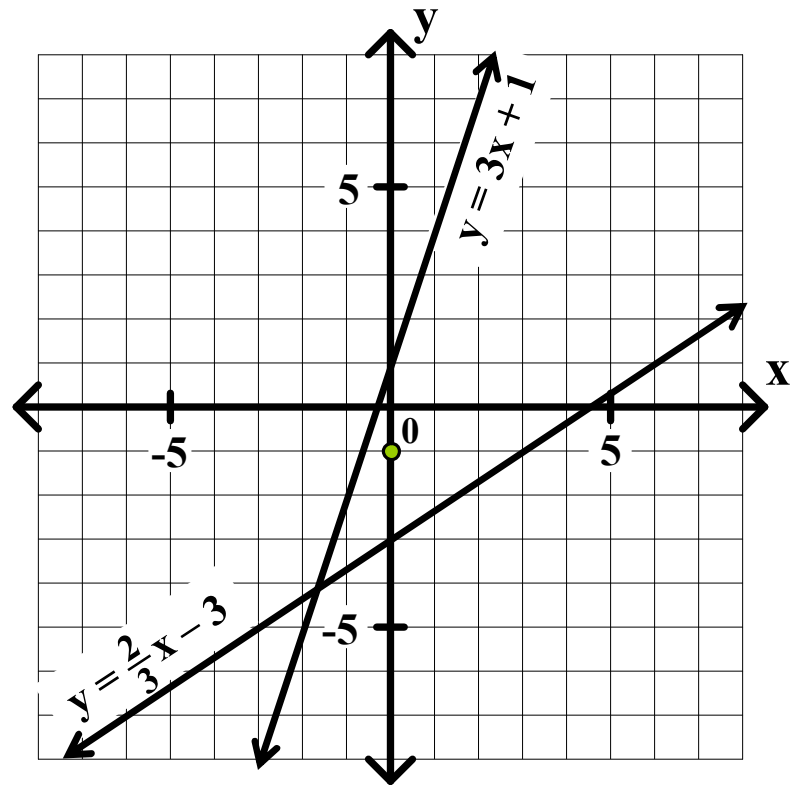
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$y = -2x - 1$ \rightarrow slope: -2
 \rightarrow y-intercept: -1



Algebra I Unit 7 The Equation of a Line

Oblique Lines

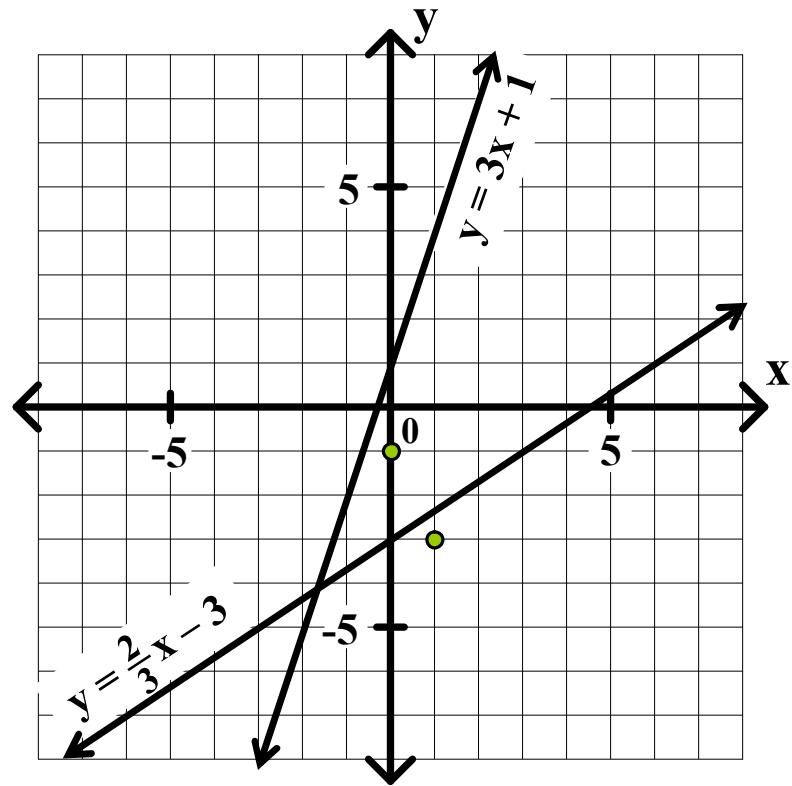
Any line that is neither horizontal nor vertical is an oblique line.

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Algebra I Unit 7 The Equation of a Line

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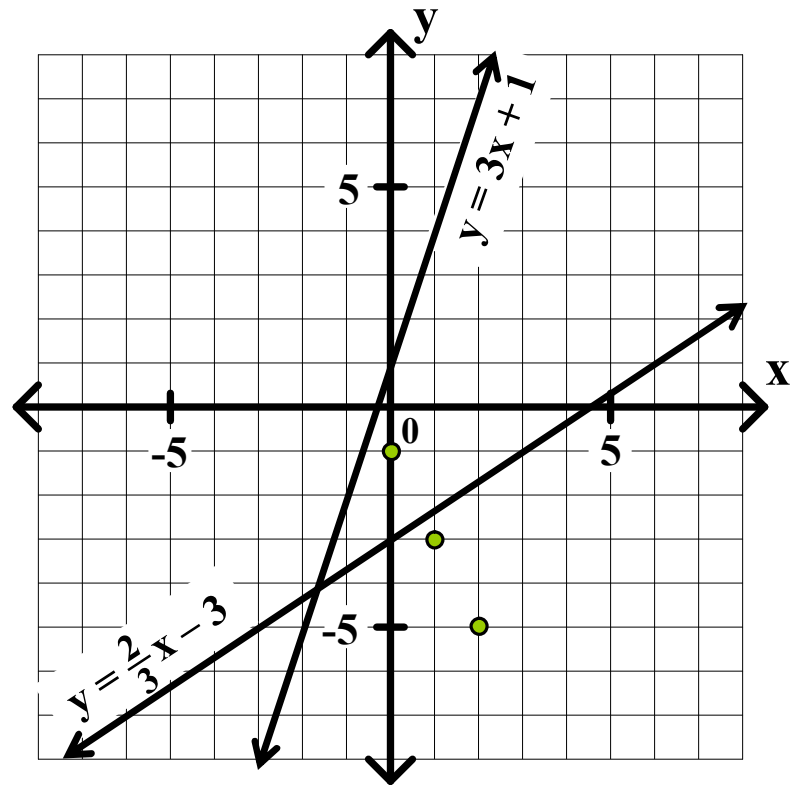
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Algebra I Unit 7 The Equation of a Line

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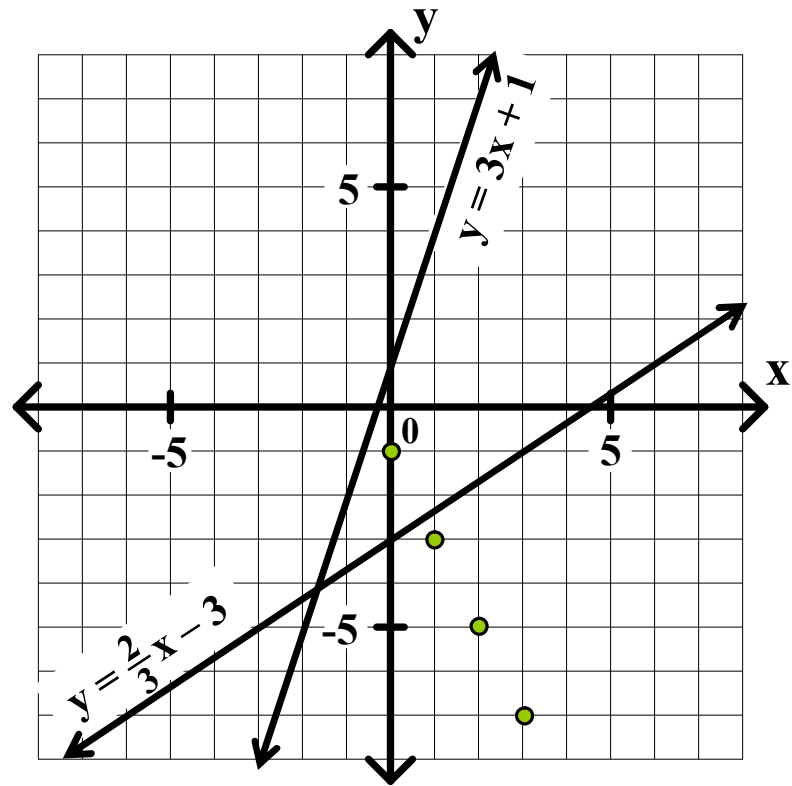
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Algebra I Unit 7 The Equation of a Line

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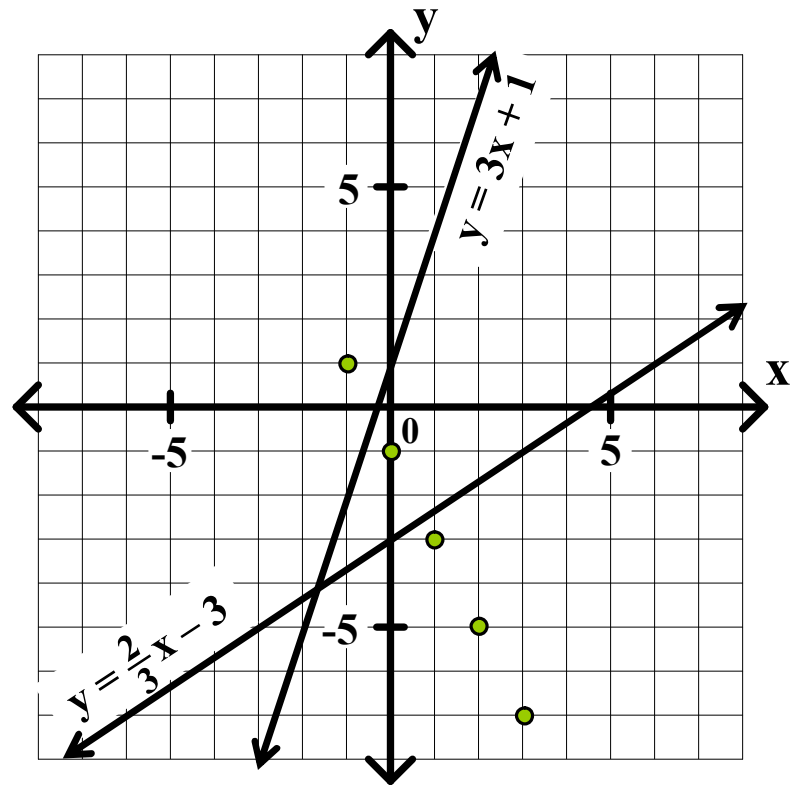
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Algebra I Unit 7 The Equation of a Line

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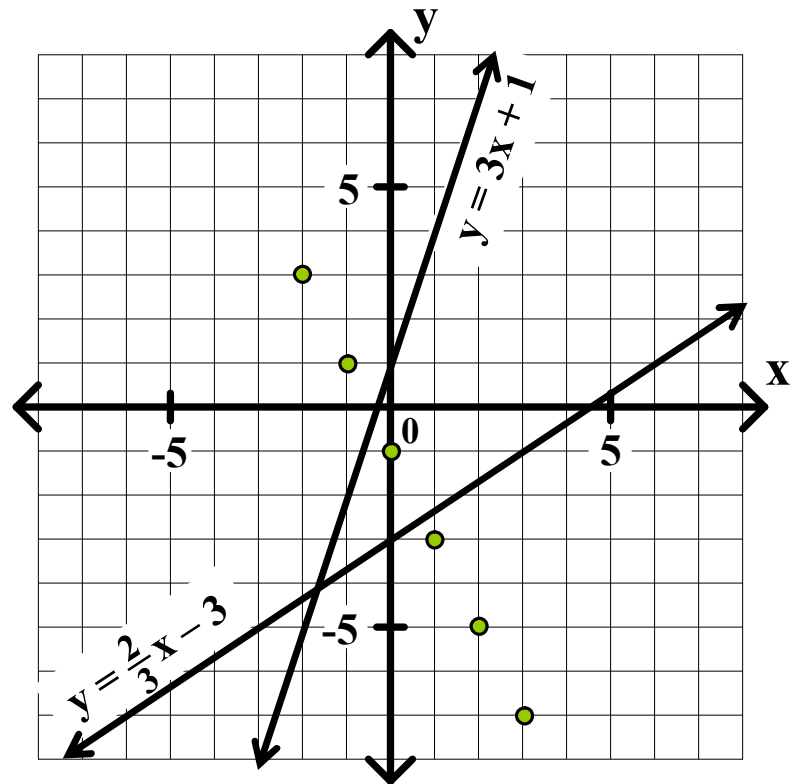
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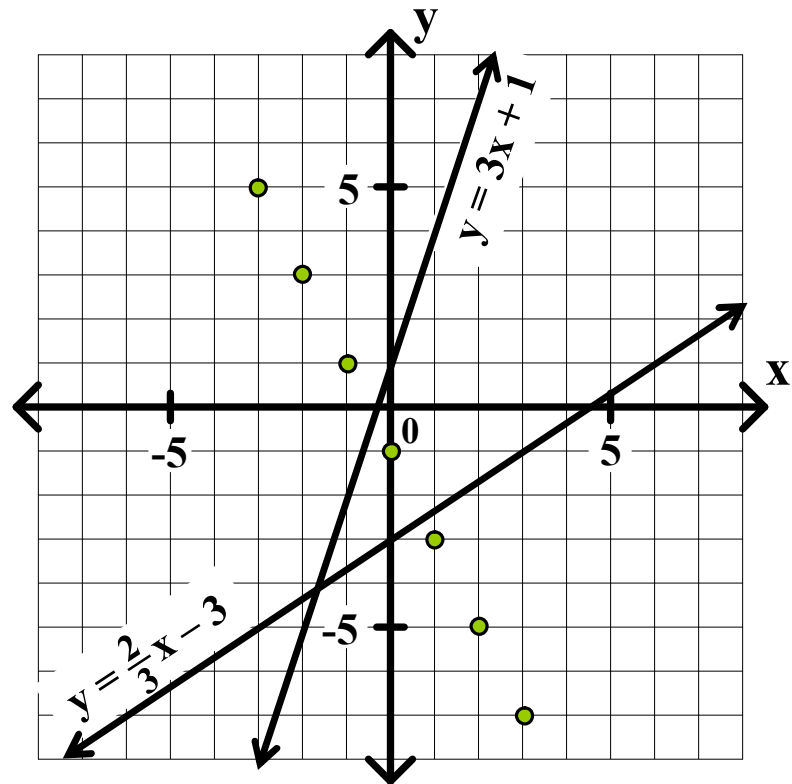
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Algebra I Unit 7 The Equation of a Line

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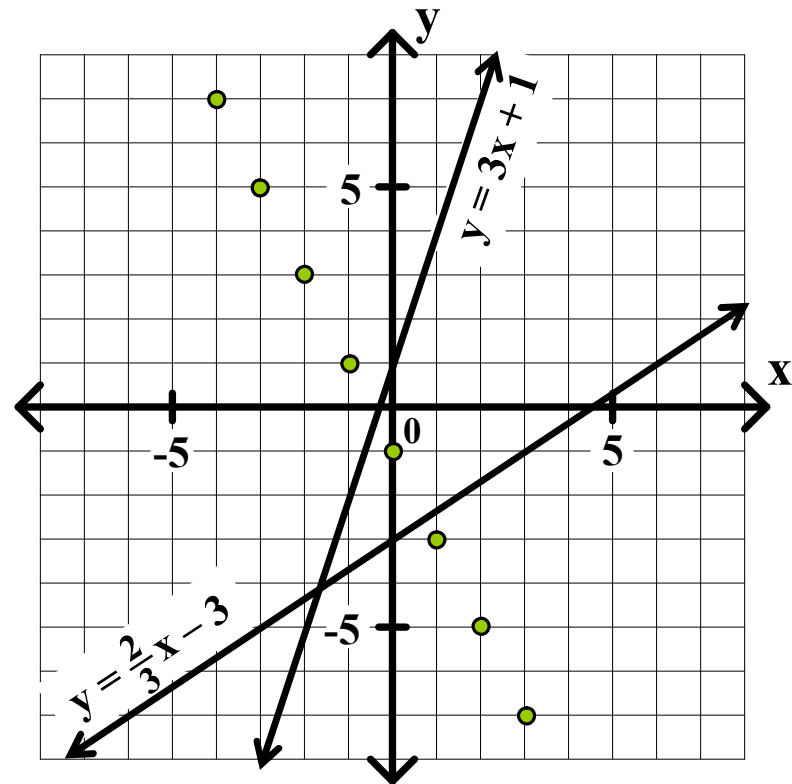
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Algebra I Unit 7 The Equation of a Line

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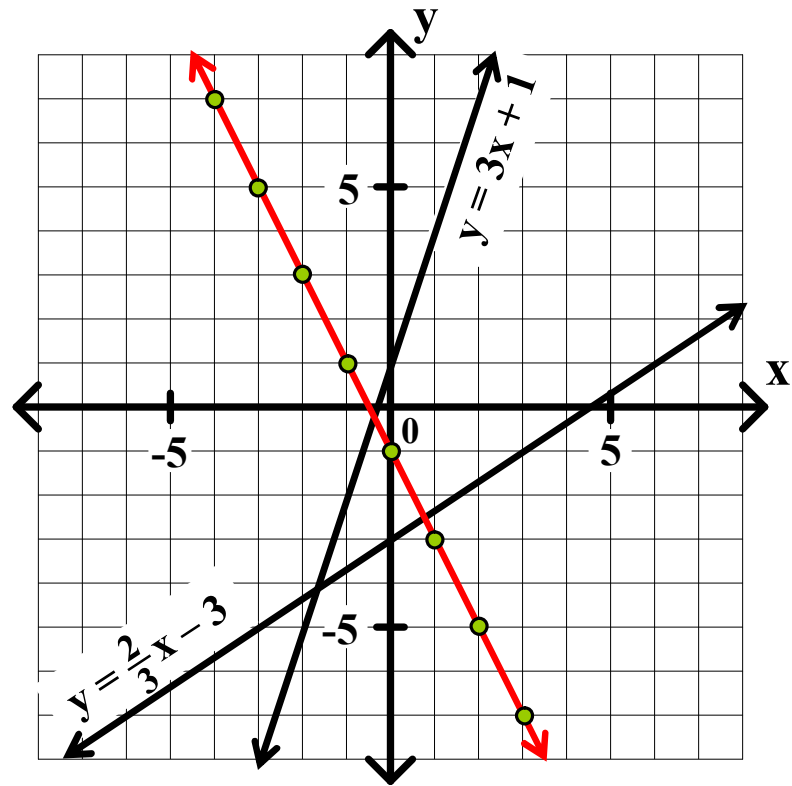
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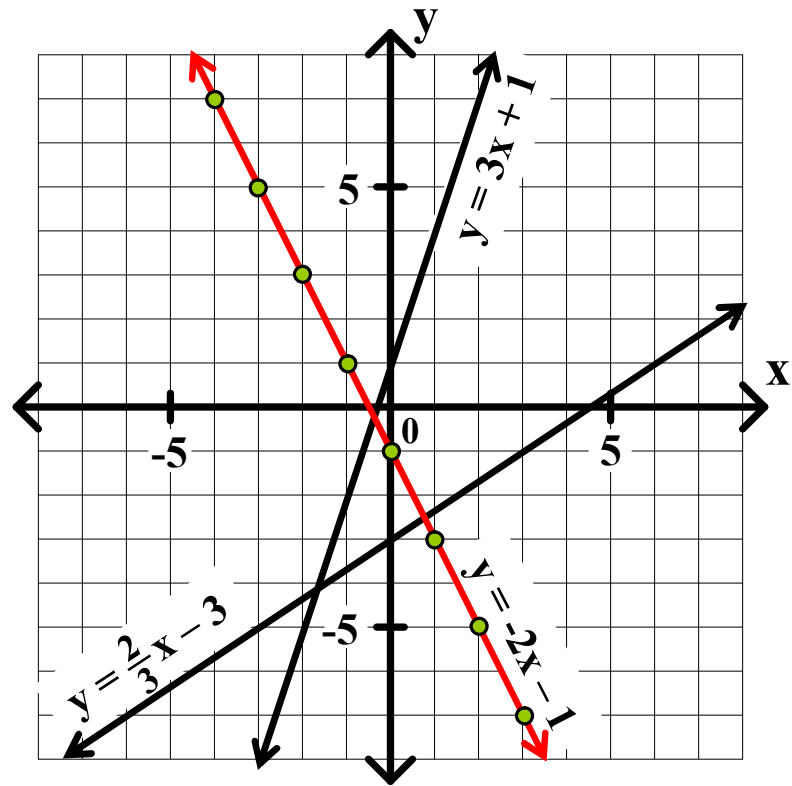
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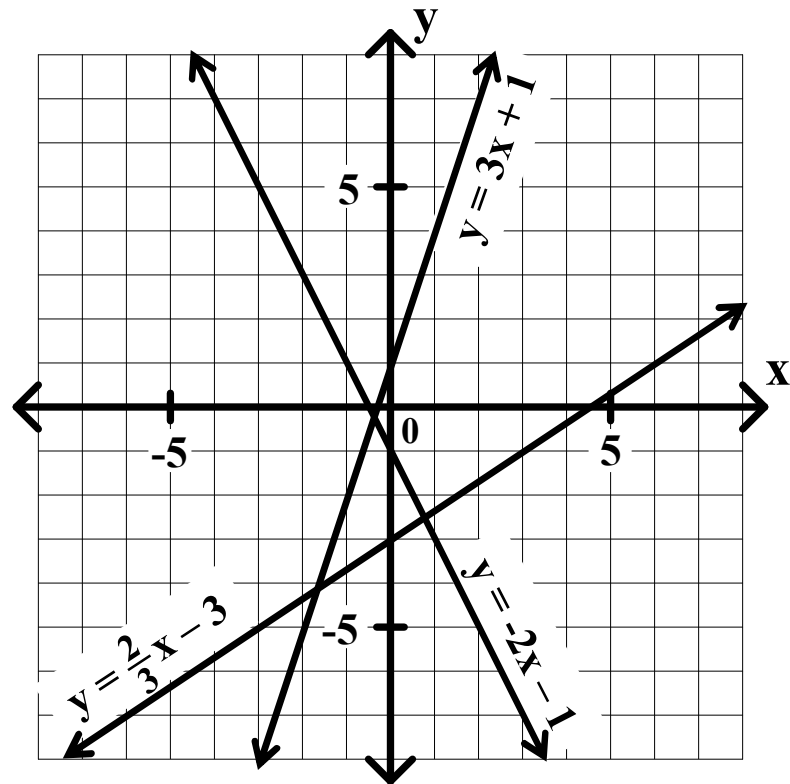
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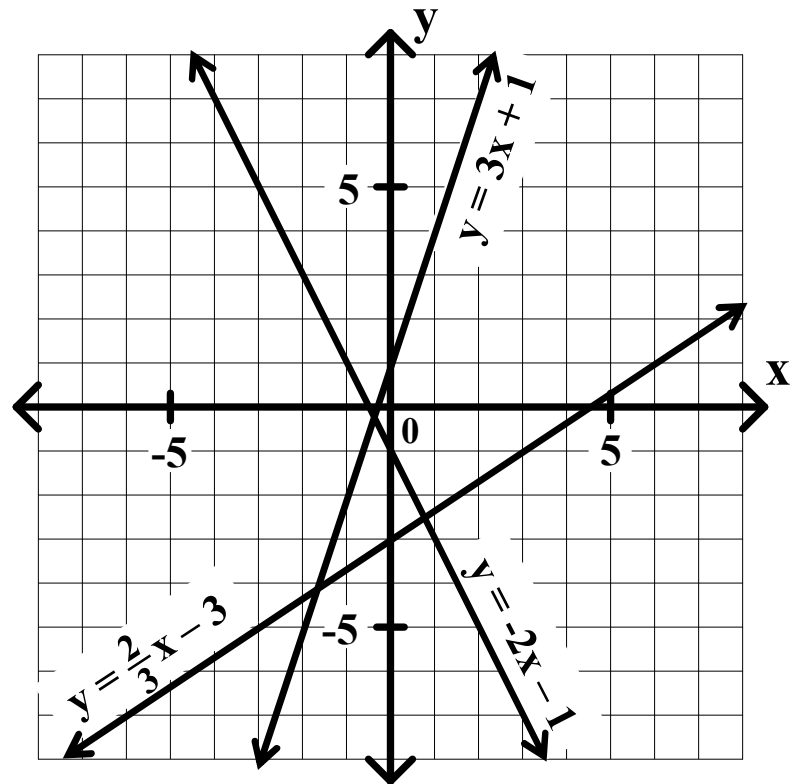
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$y = \frac{1}{4}x + 2$



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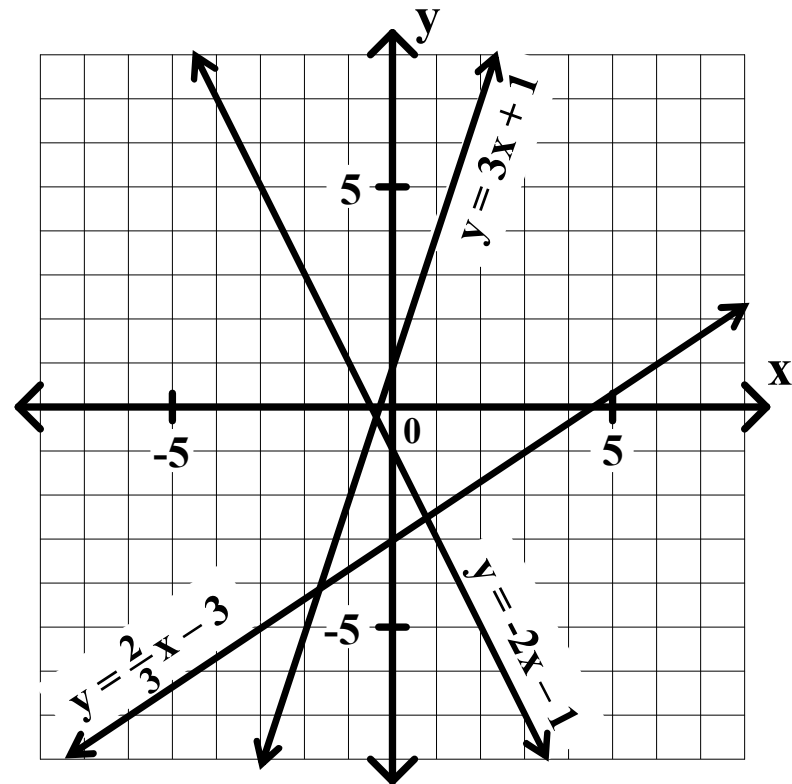
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Algebra I Unit 7 The Equation of a Line

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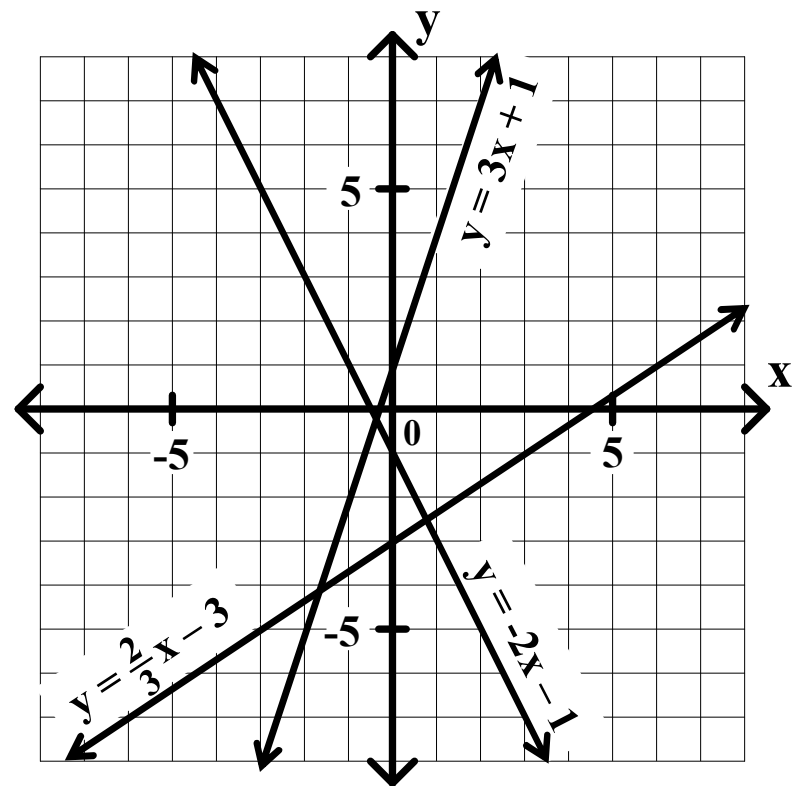
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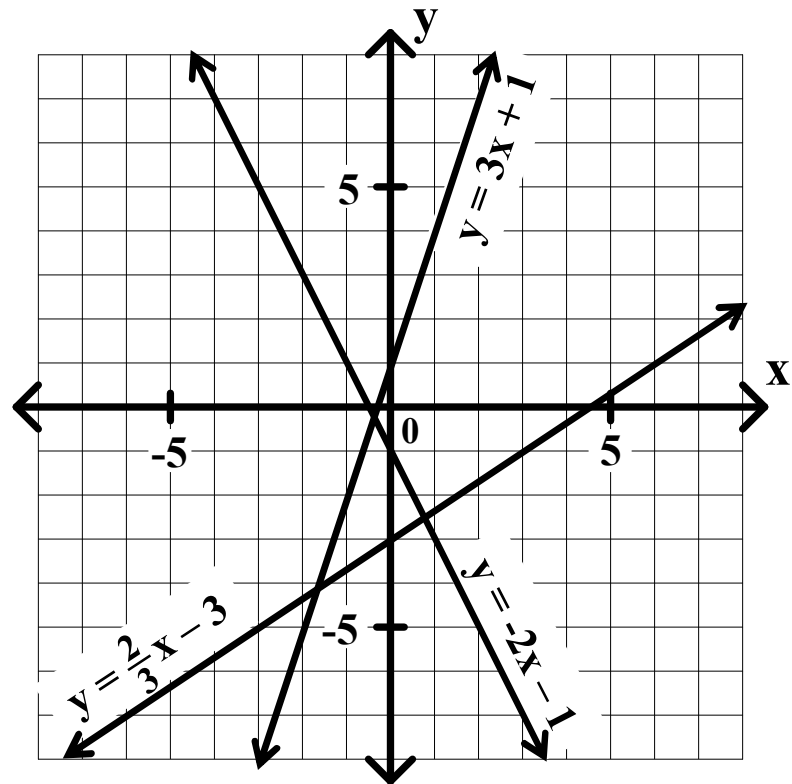
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Algebra I Unit 7 The Equation of a Line

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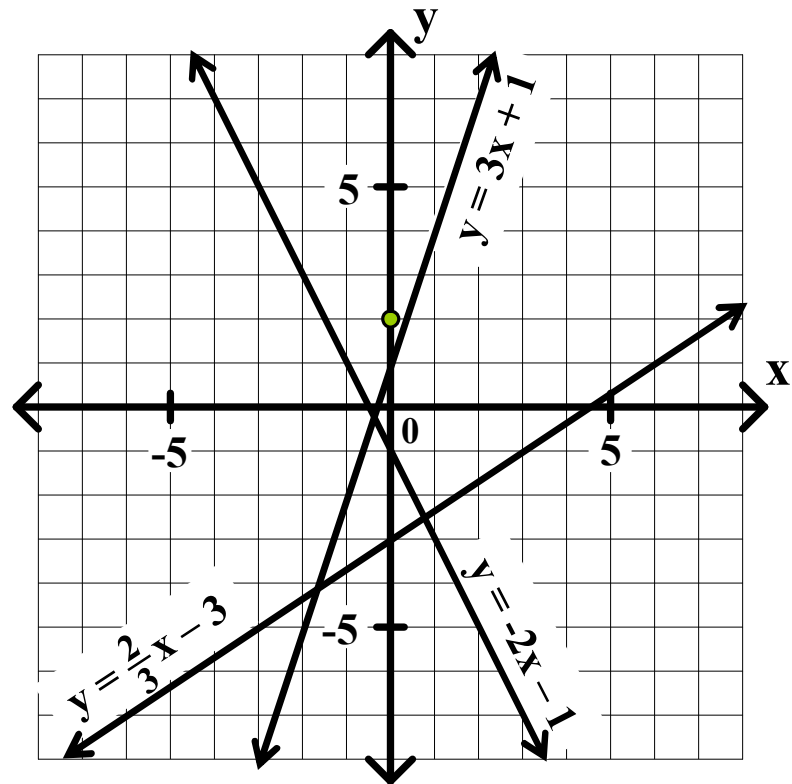
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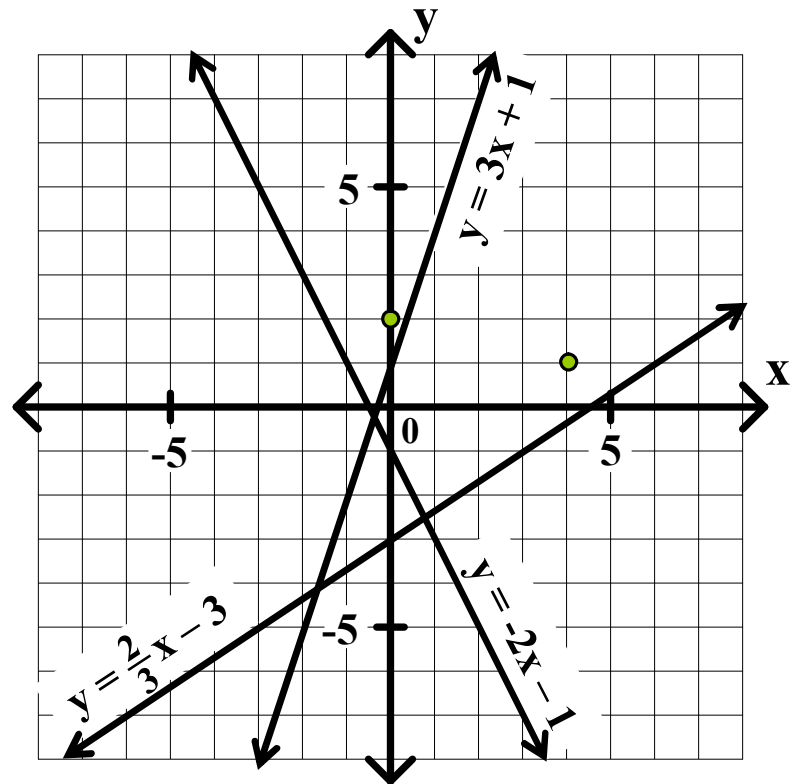
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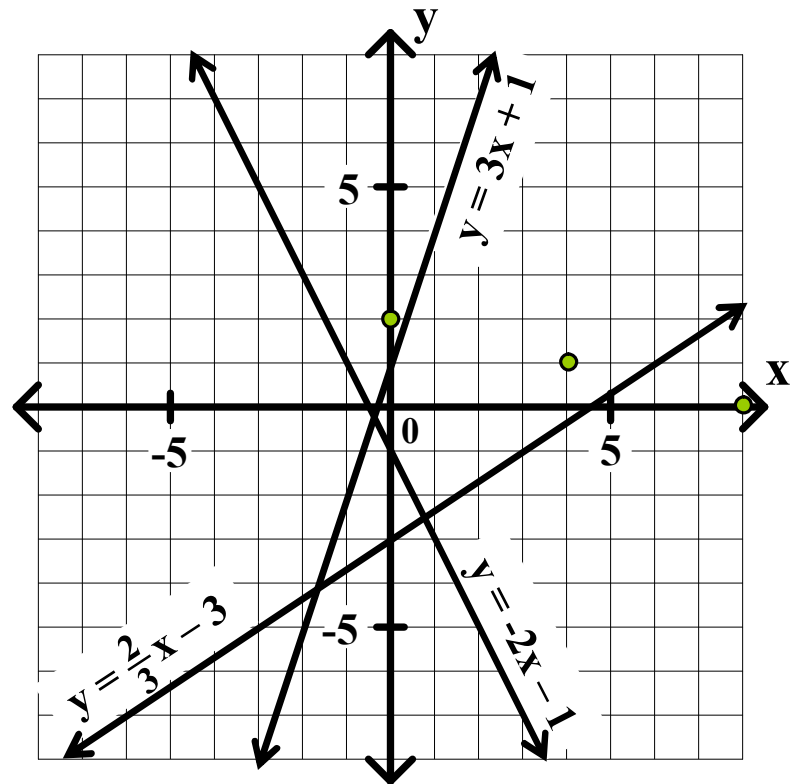
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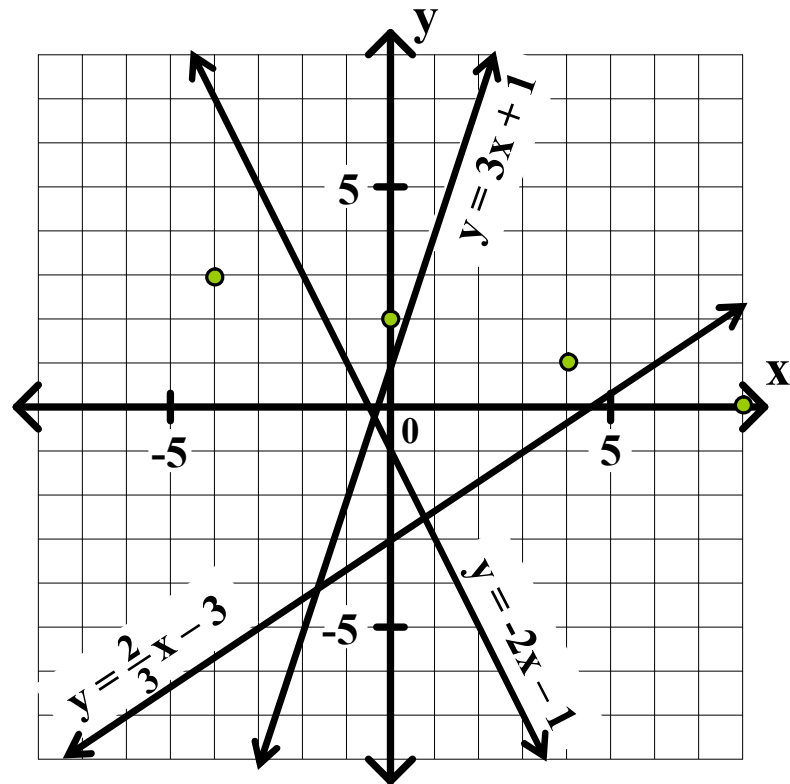
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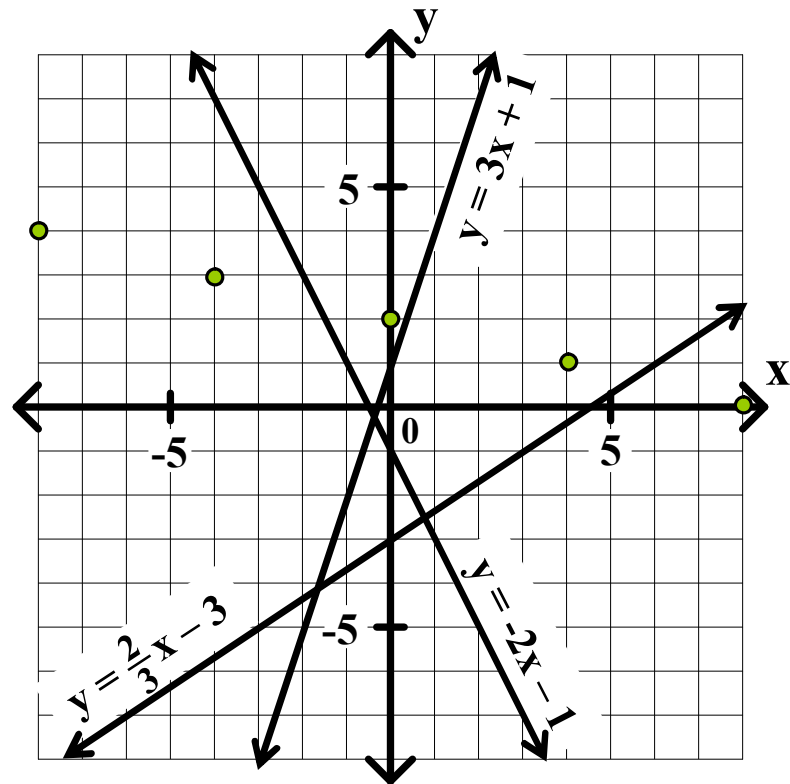
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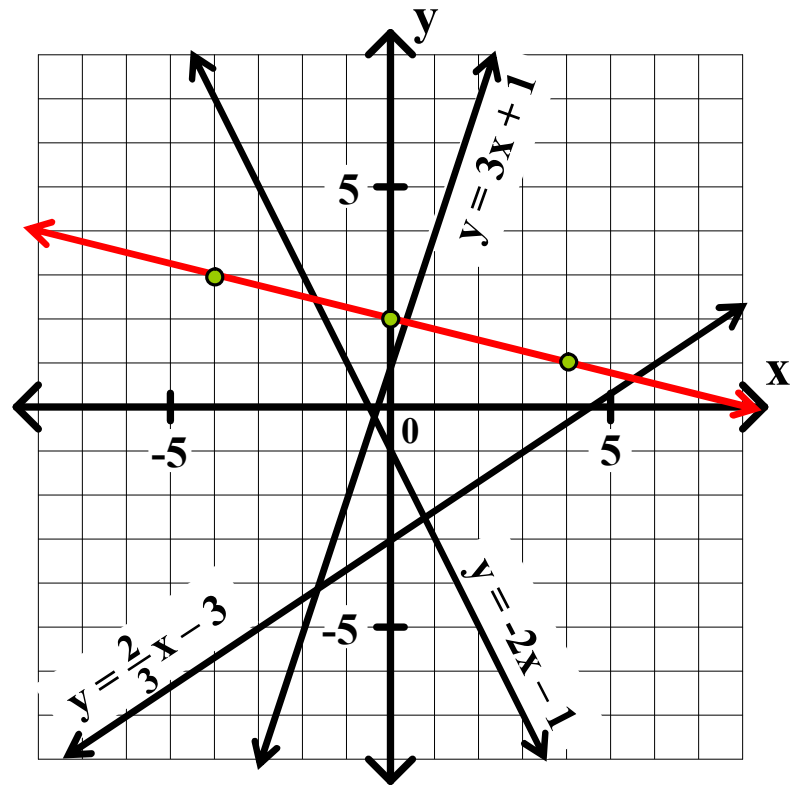
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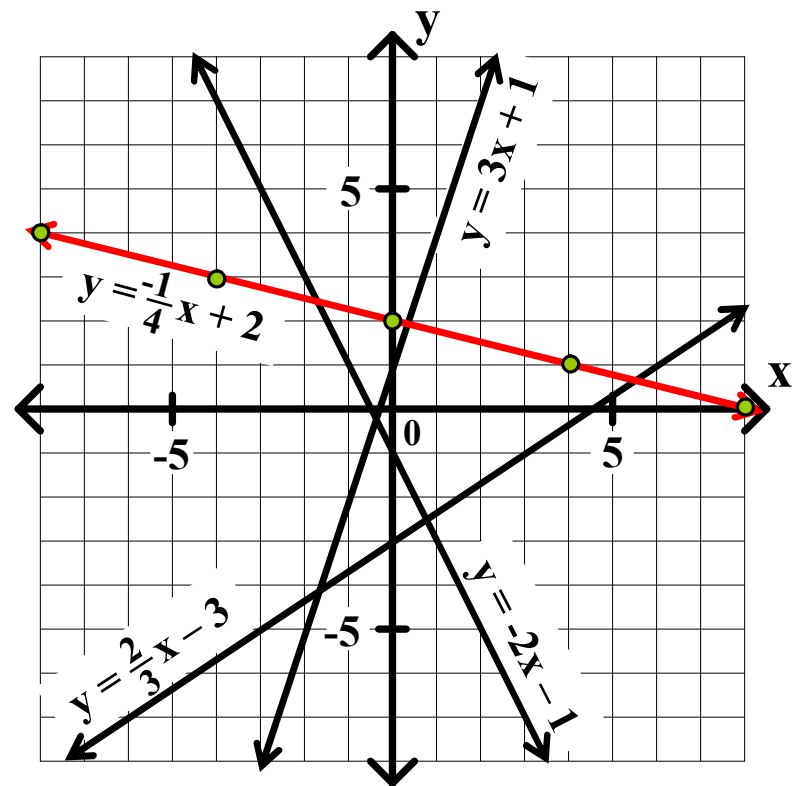
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Algebra I Unit 7 The Equation of a Line

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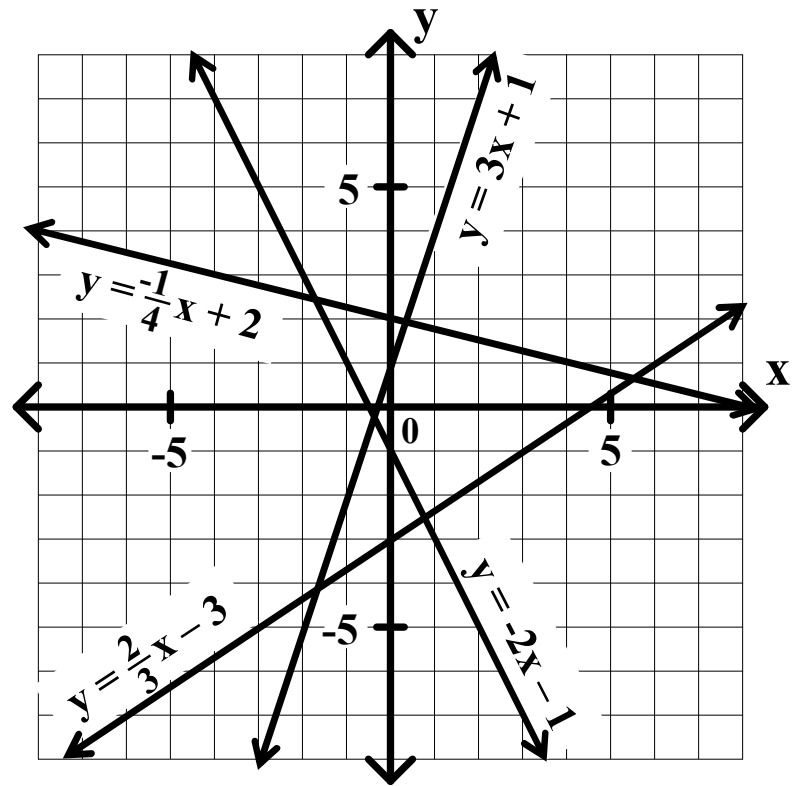
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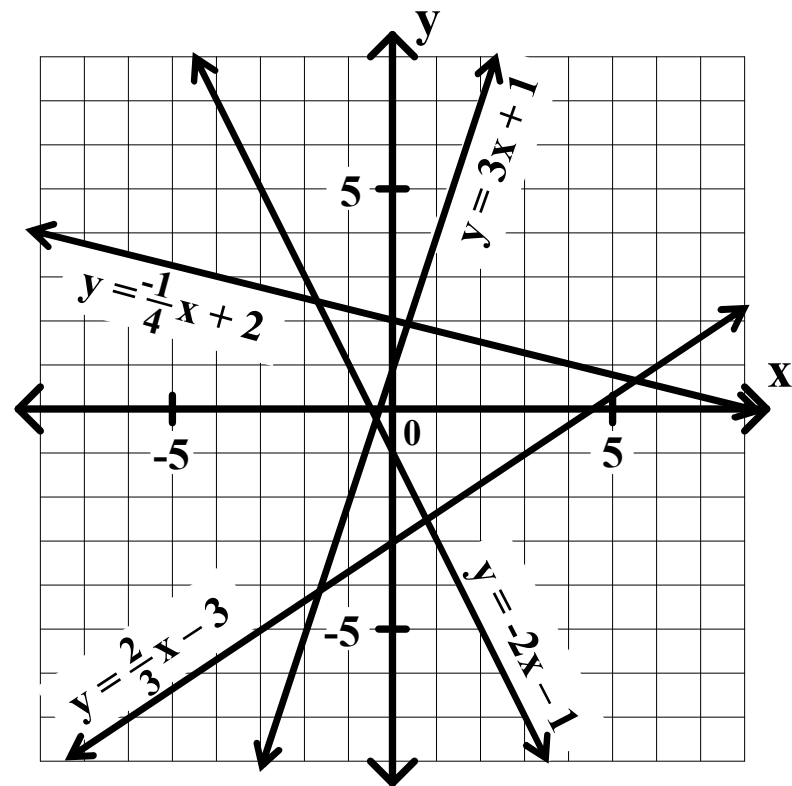
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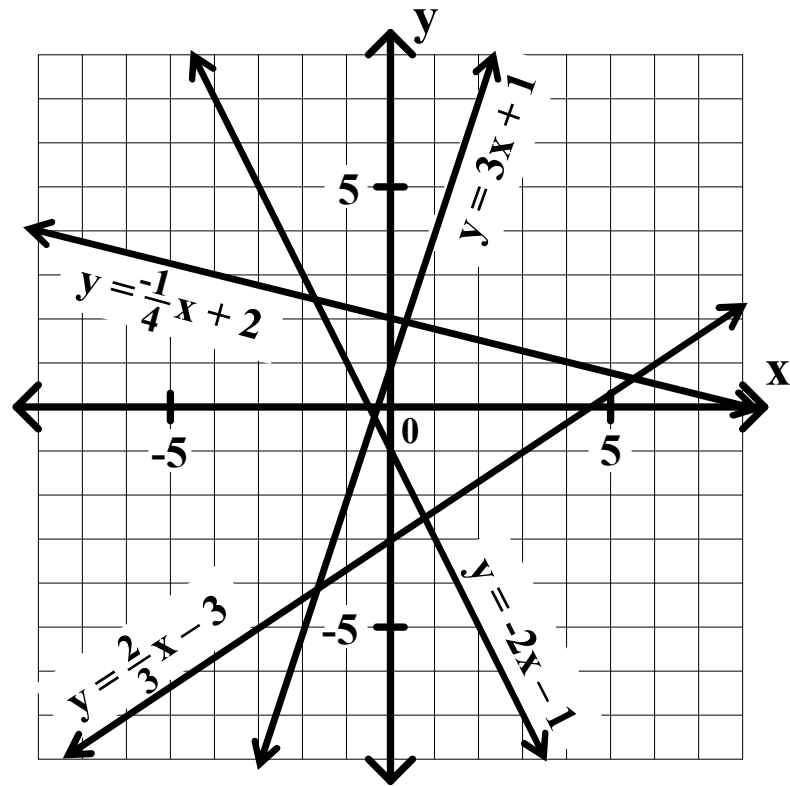


Algebra I Unit 7 The Equation of a Line

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Any line that is neither horizontal nor vertical is an oblique line.

Every oblique line has an equation with the form



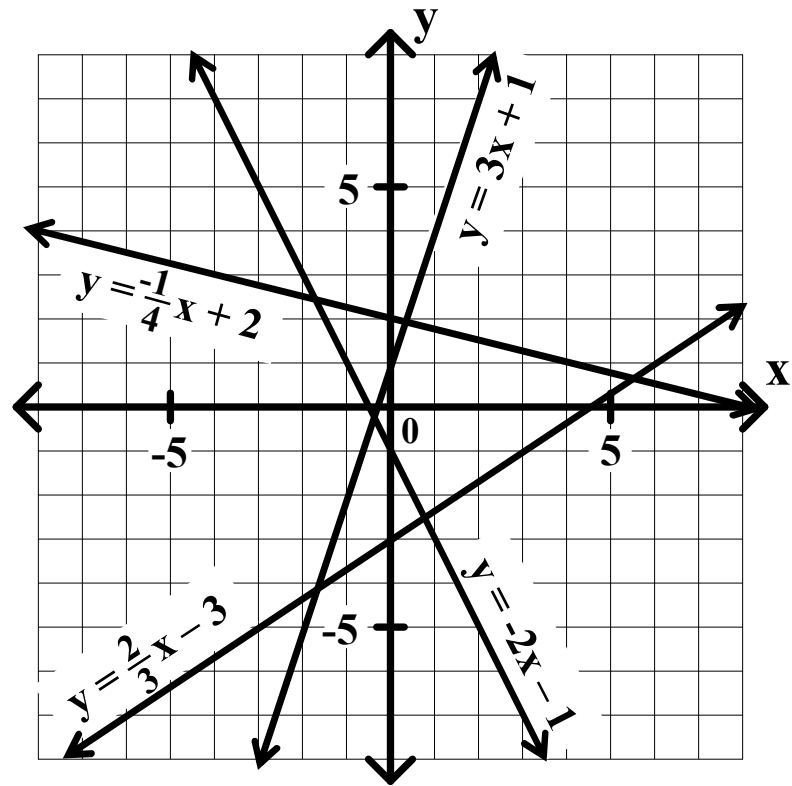
Algebra I Unit 7 The Equation of a Line

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Algebra I Unit 7 The Equation of a Line

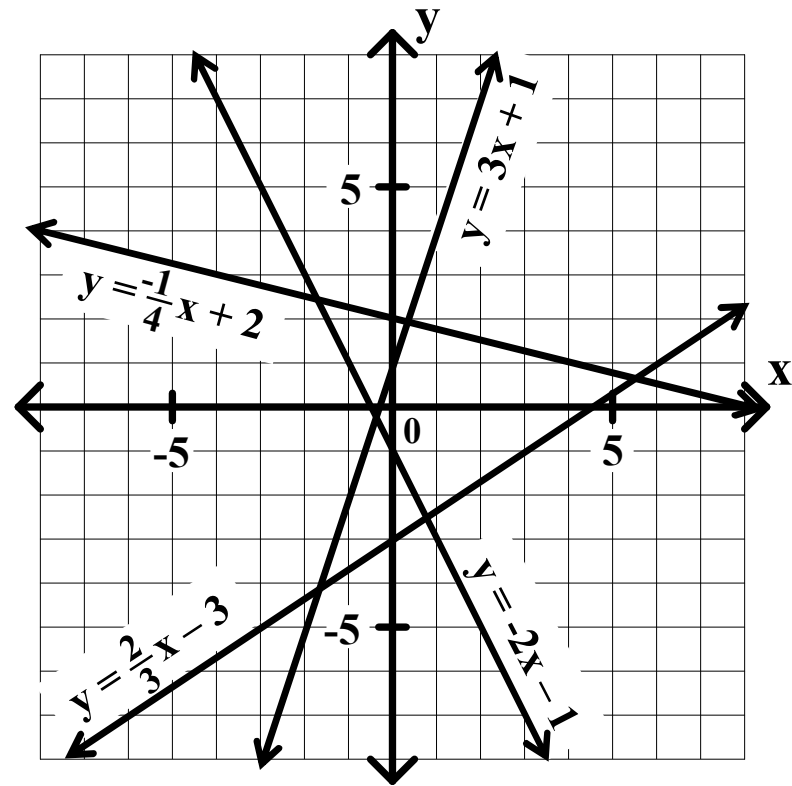
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m is the slope of the line.



Algebra I Unit 7 The Equation of a Line

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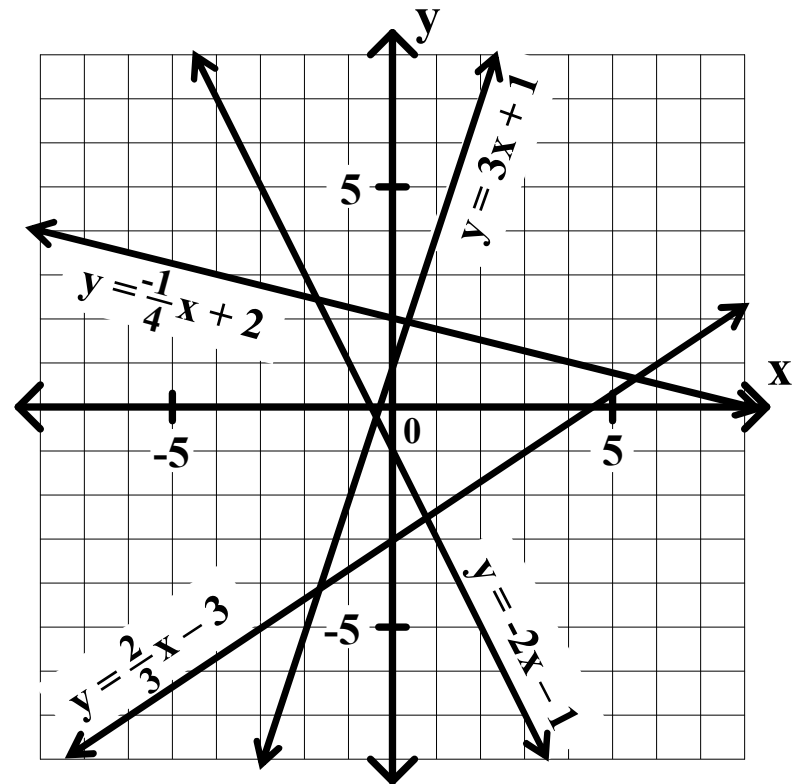
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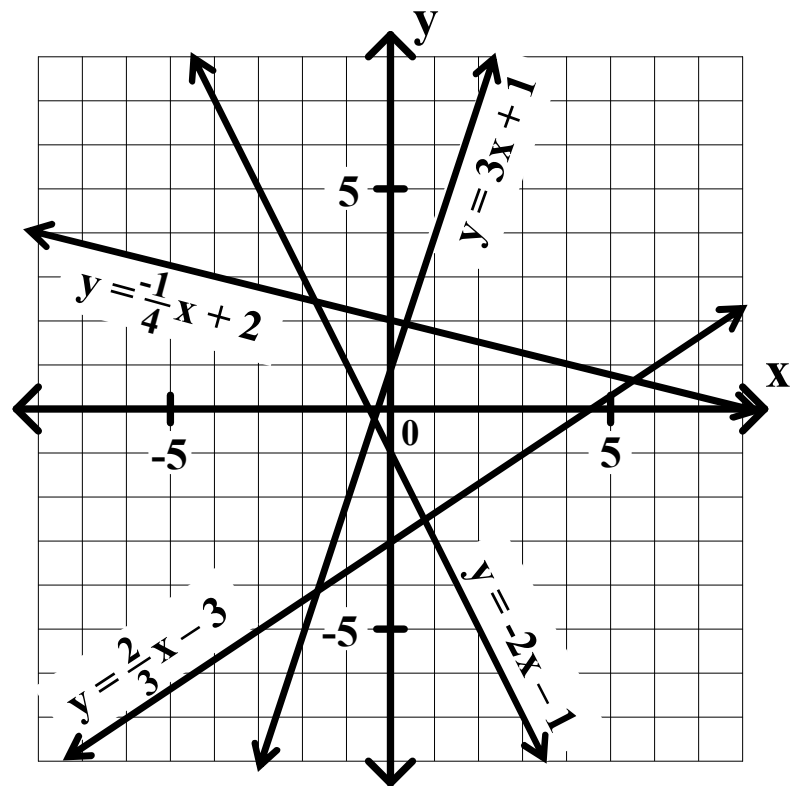
Every oblique line has an equation with the form

$$y = mx + b.$$

m is the slope of the line.

b is y -intercept of the line.

This is called the slope-intercept equation of the line.



Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

7. The line with slope 2 and y-intercept 4. _____

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$$\begin{array}{l} \rightarrow m = 2 \\ \rightarrow b = 4 \end{array}$$

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Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

9. The line through (0, 2) with slope -3.

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

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The point $(0, 2)$ is on the y-axis !!

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The line is not vertical !!

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The line is not horizontal !!

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

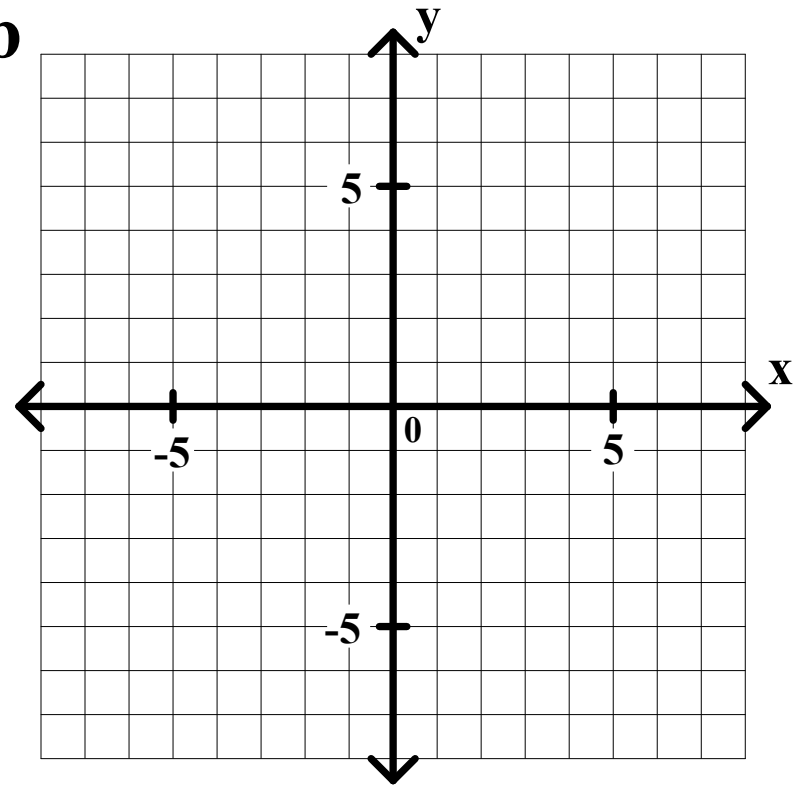
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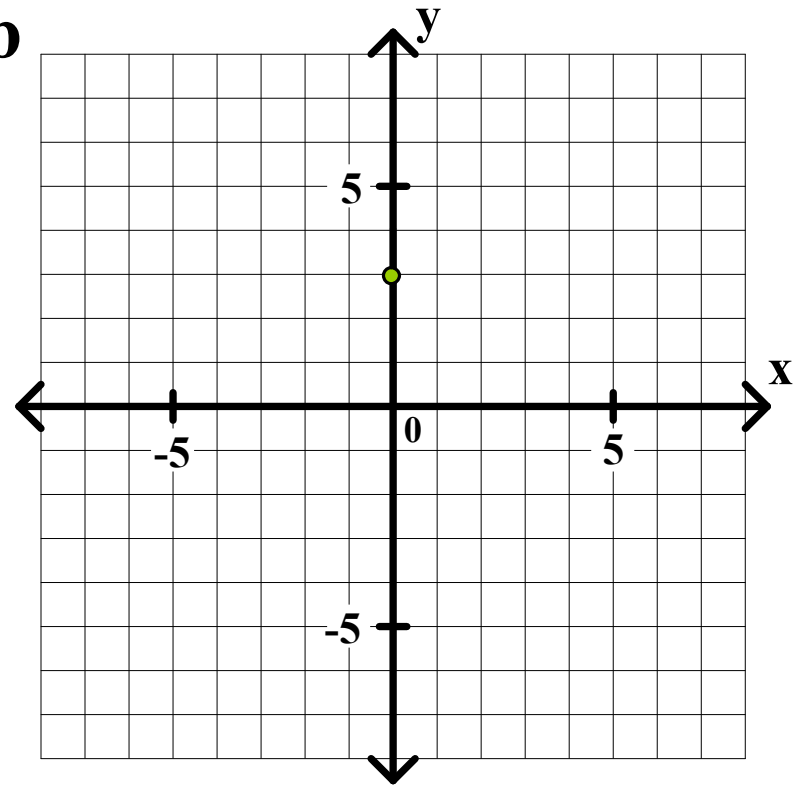
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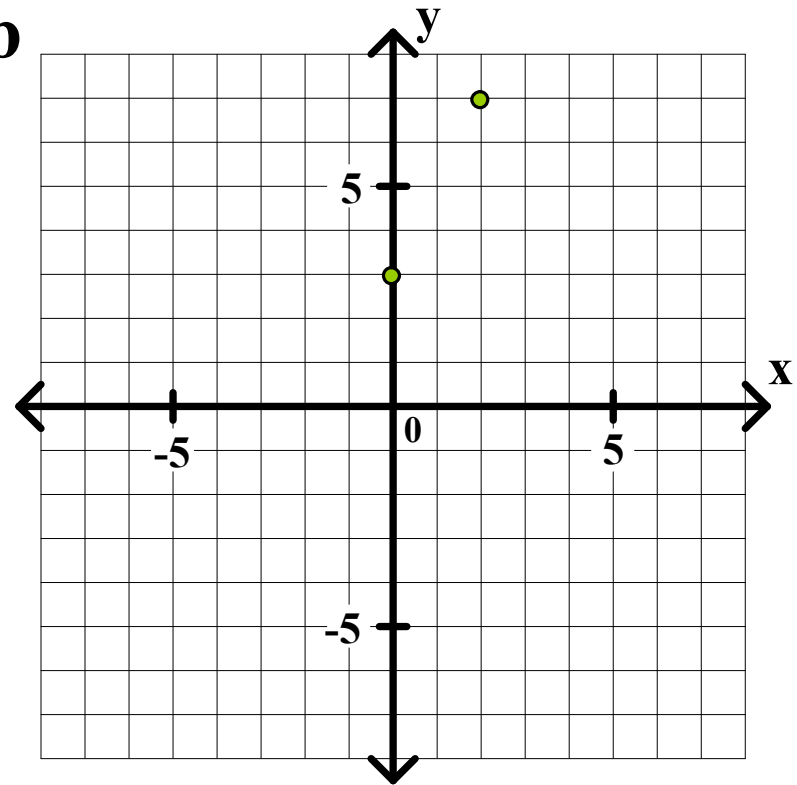
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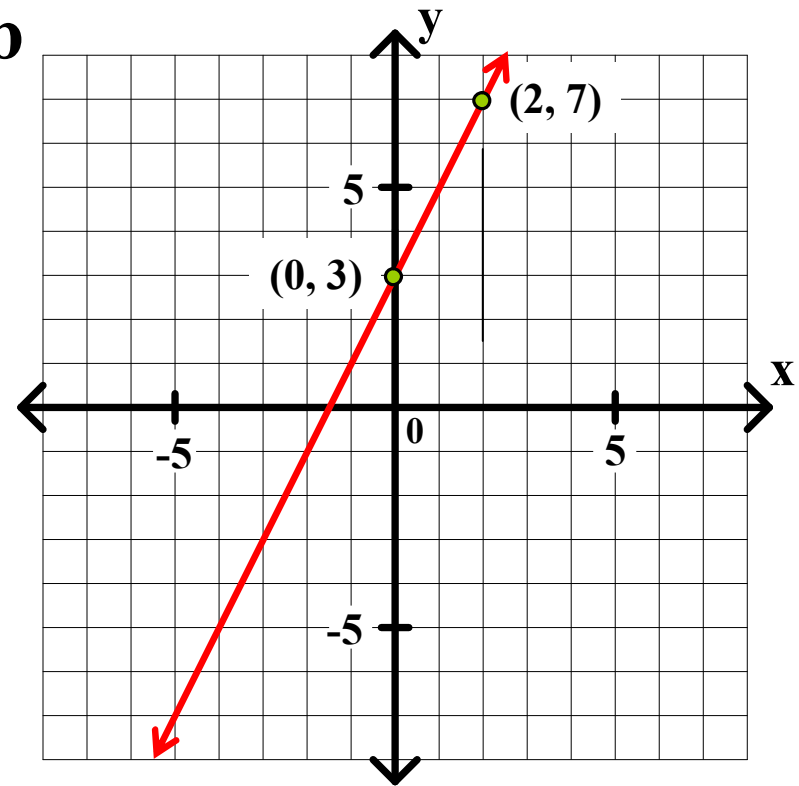
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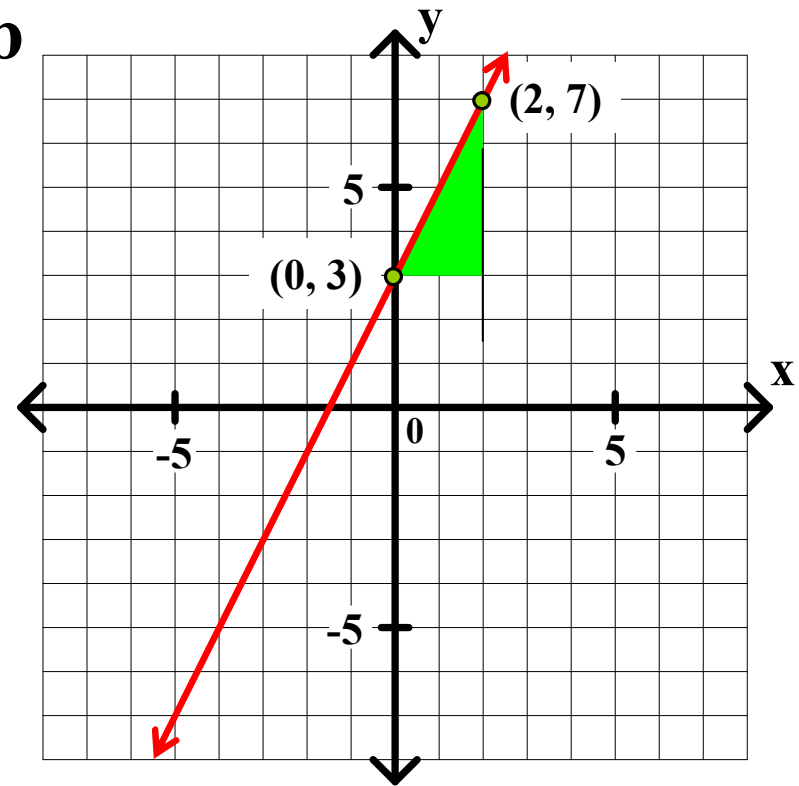
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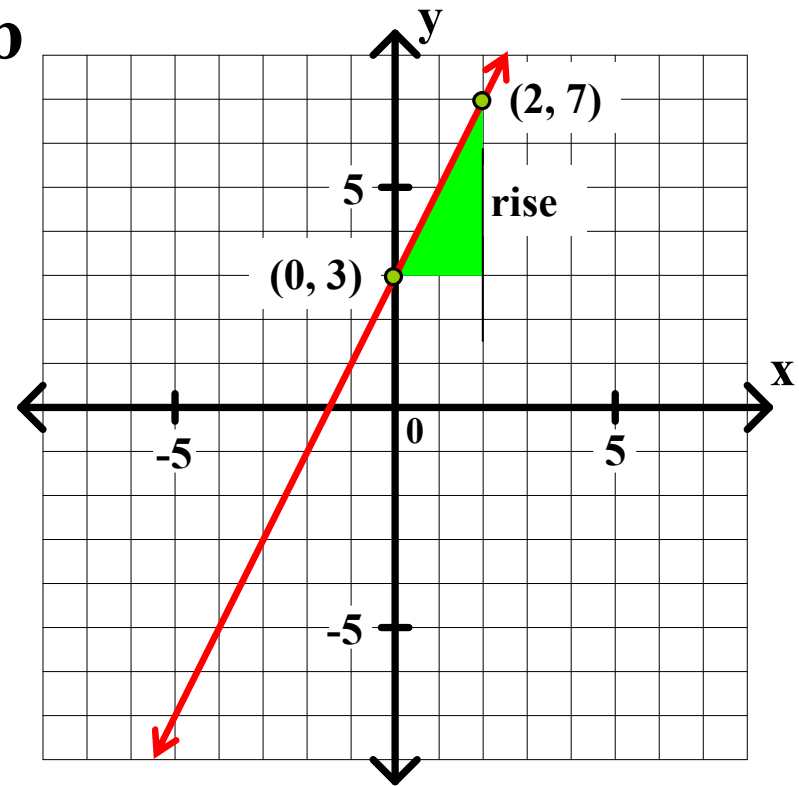
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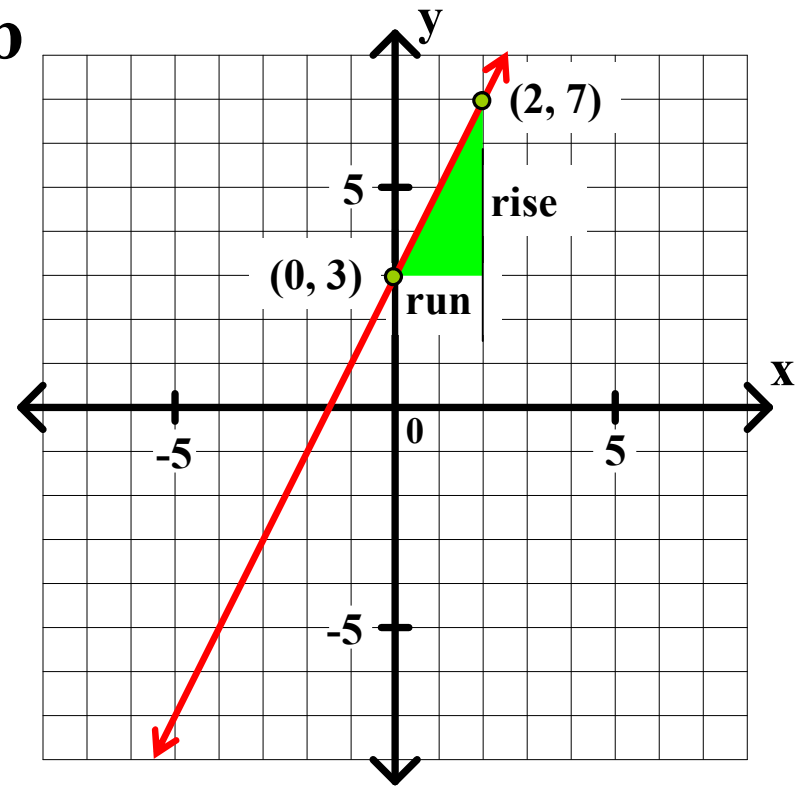
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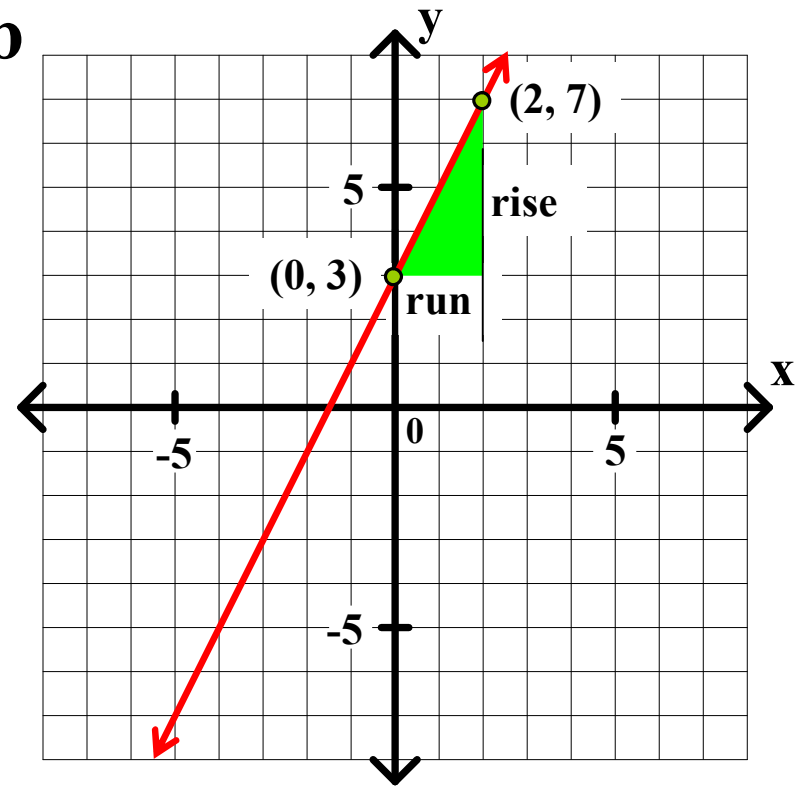
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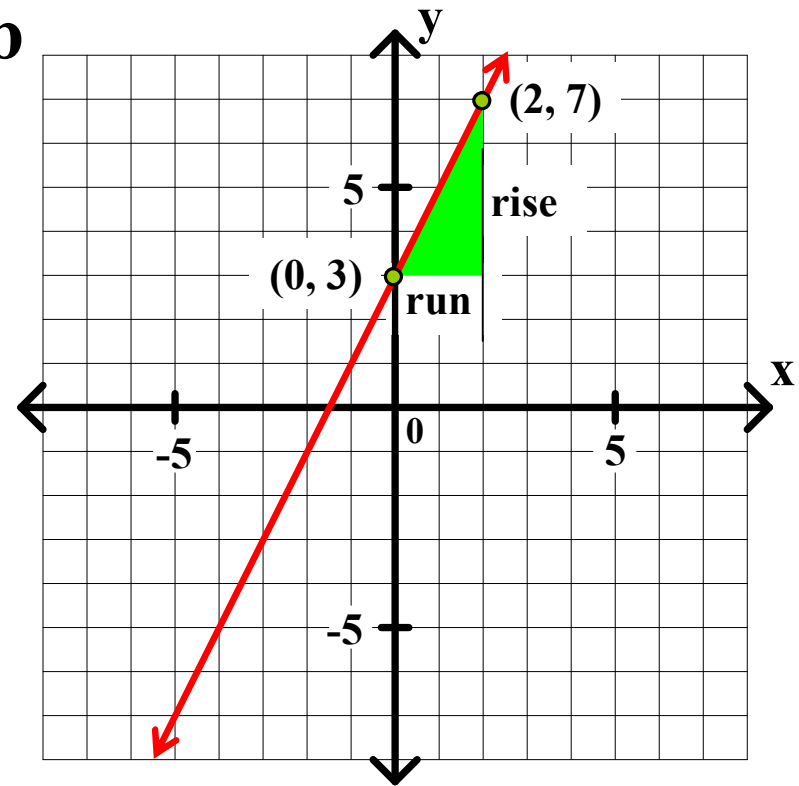
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$$m = \frac{\text{rise}}{\text{run}} = \underline{\hspace{2cm}}$$



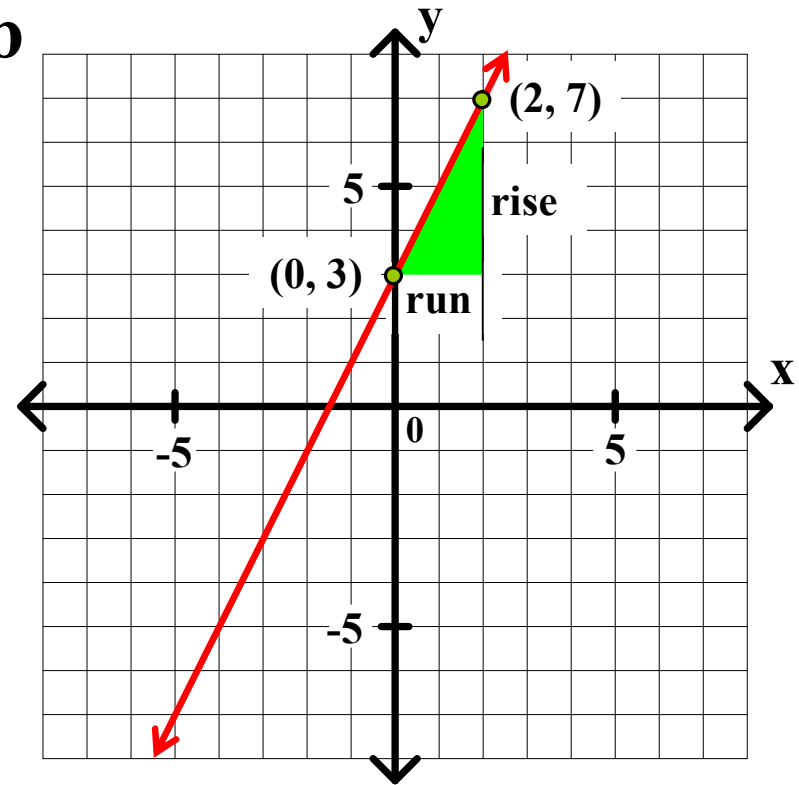
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$$m = \frac{\text{rise}}{\text{run}} = \frac{4}{2}$$



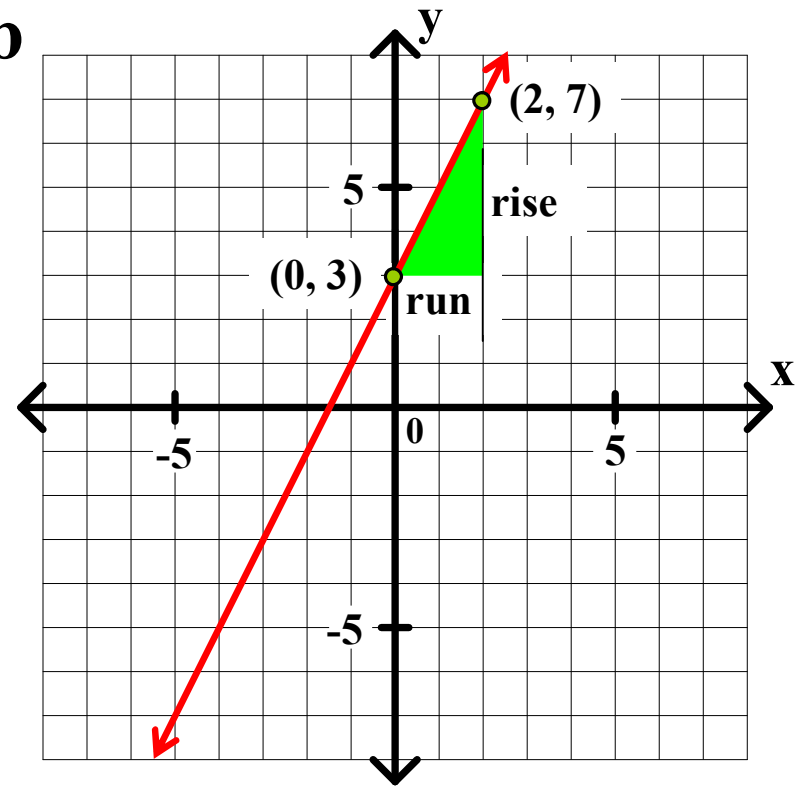
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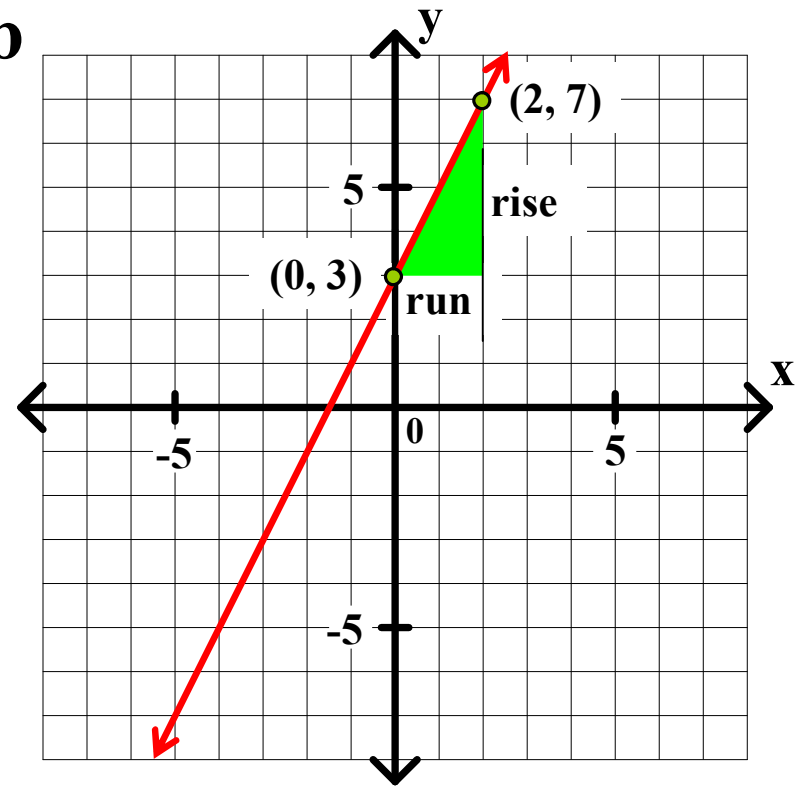
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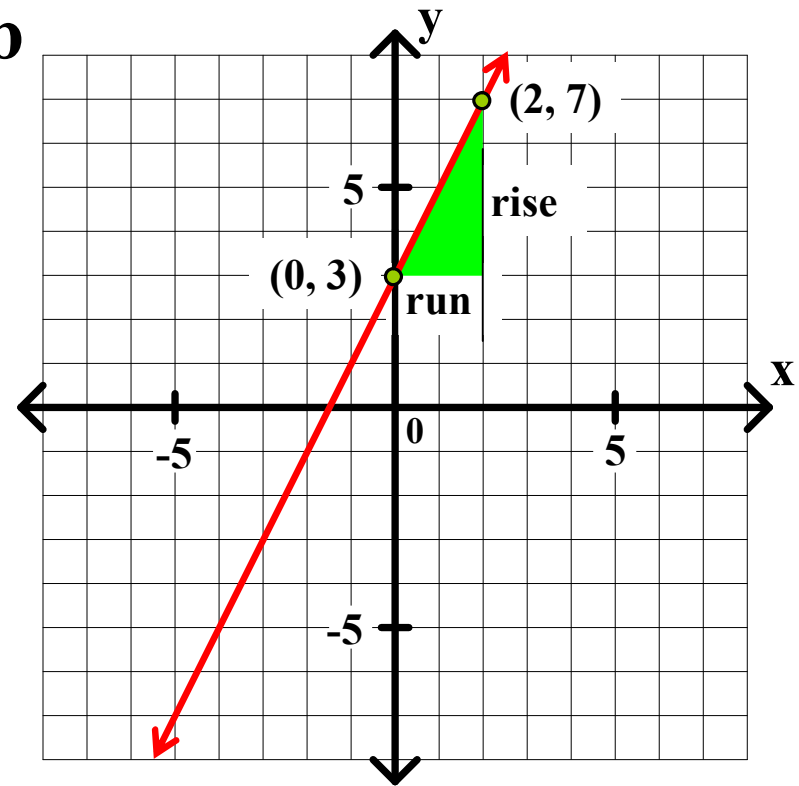
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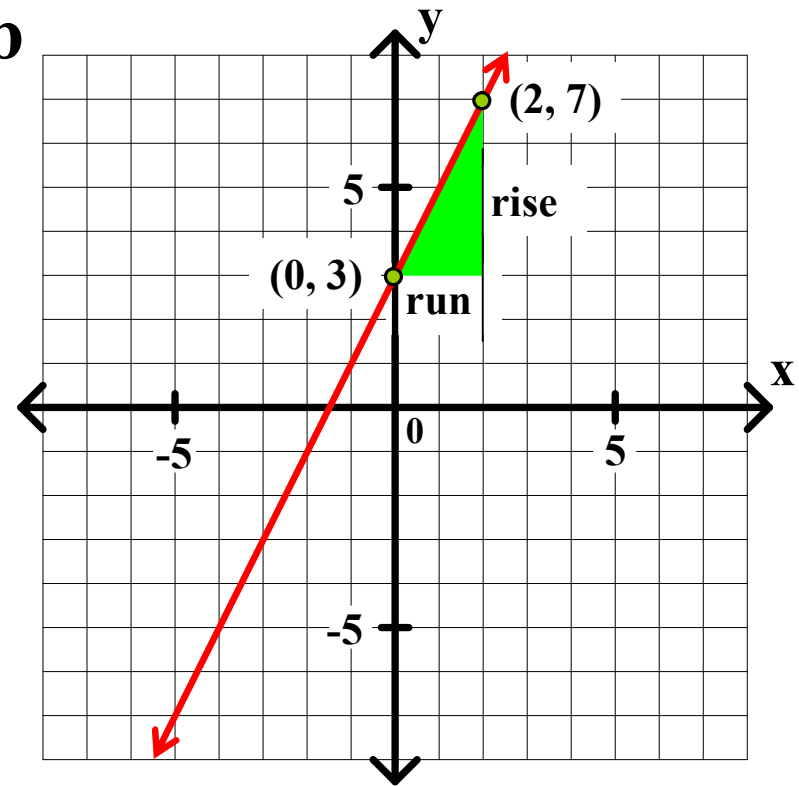
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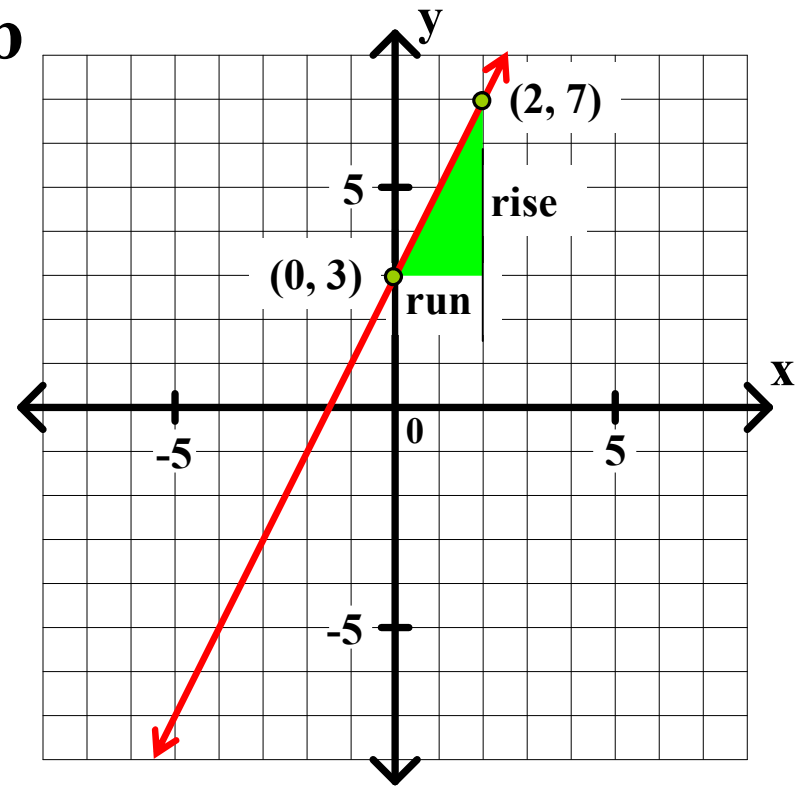
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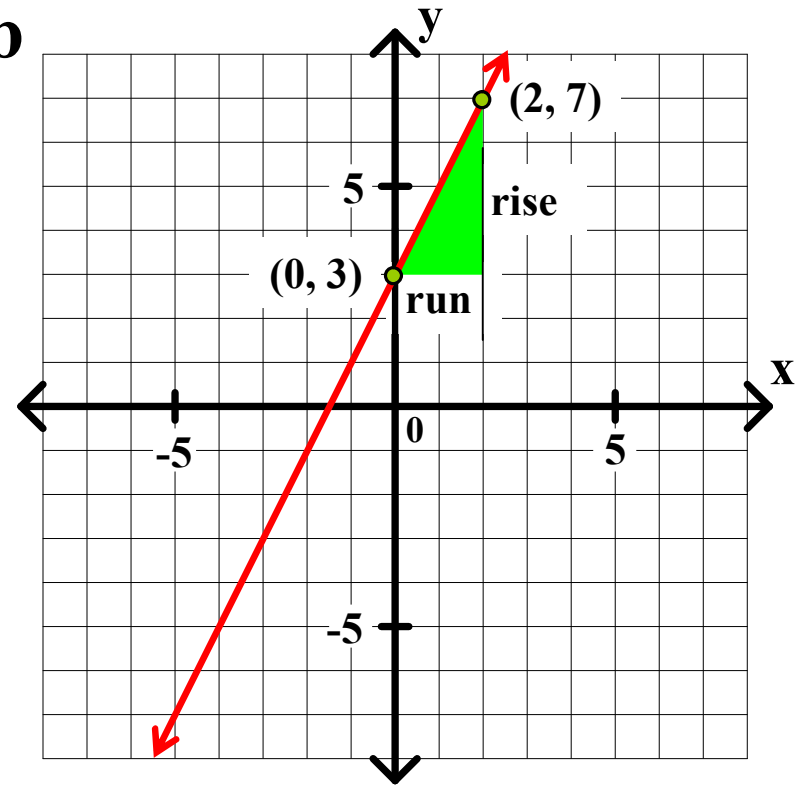
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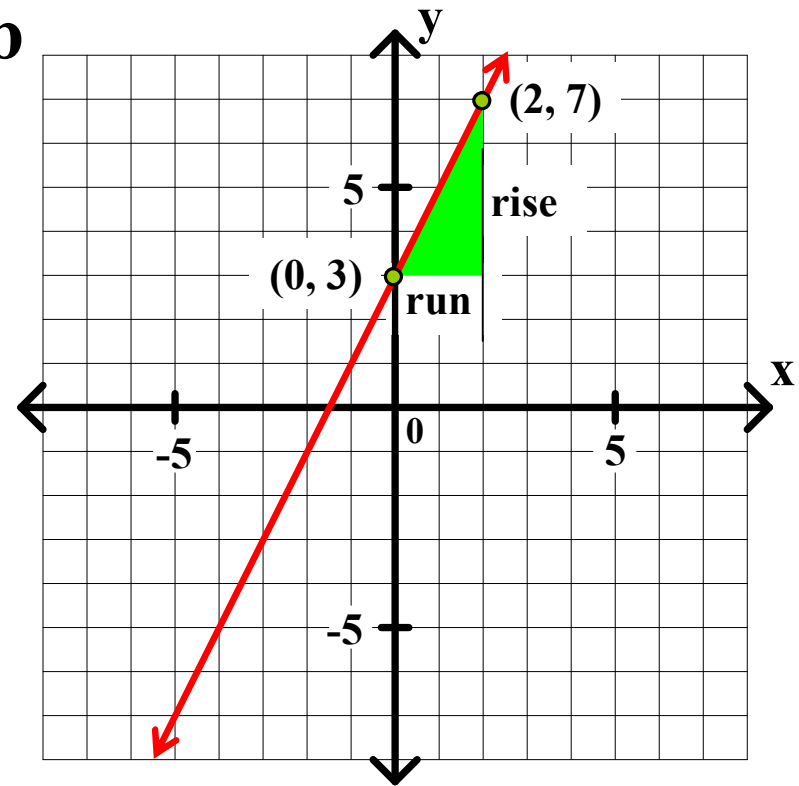
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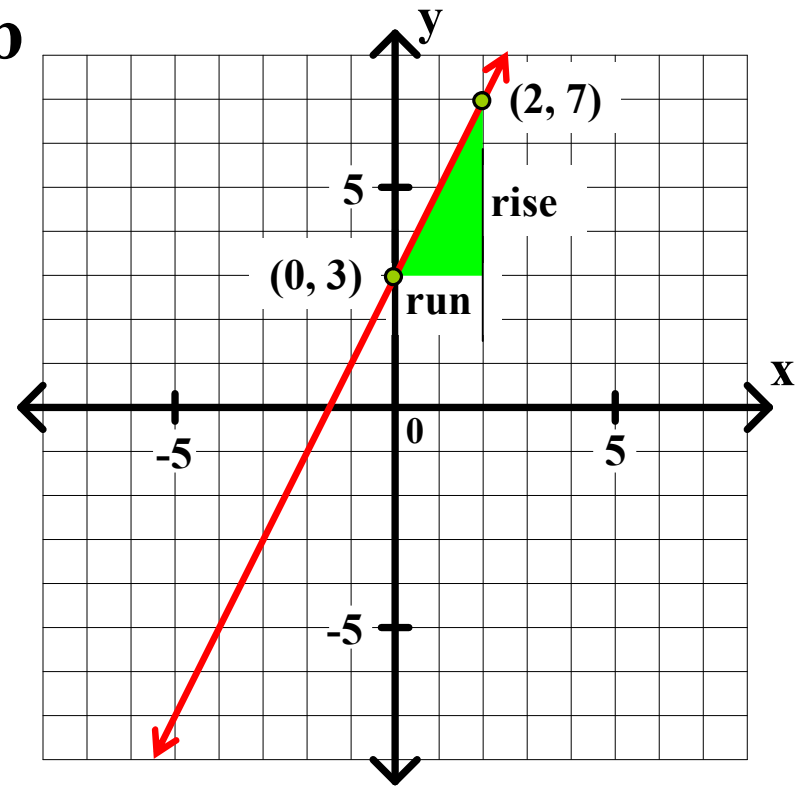
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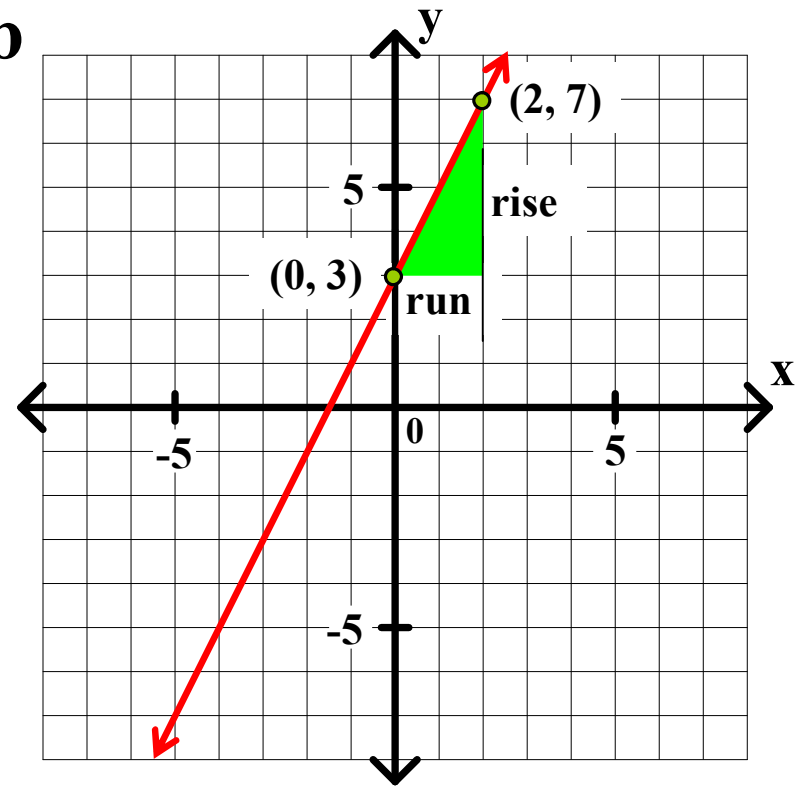
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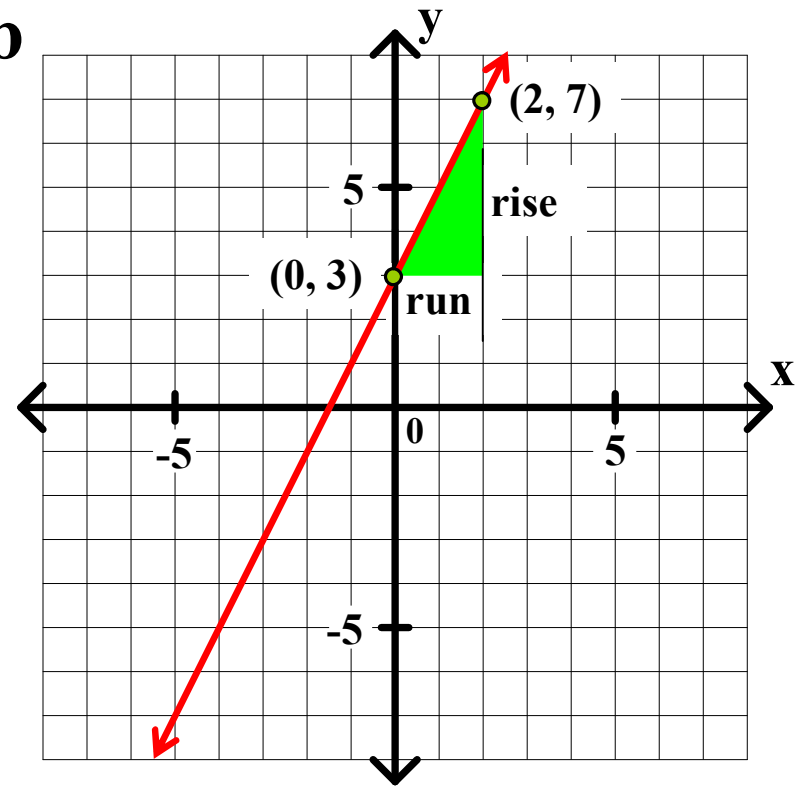
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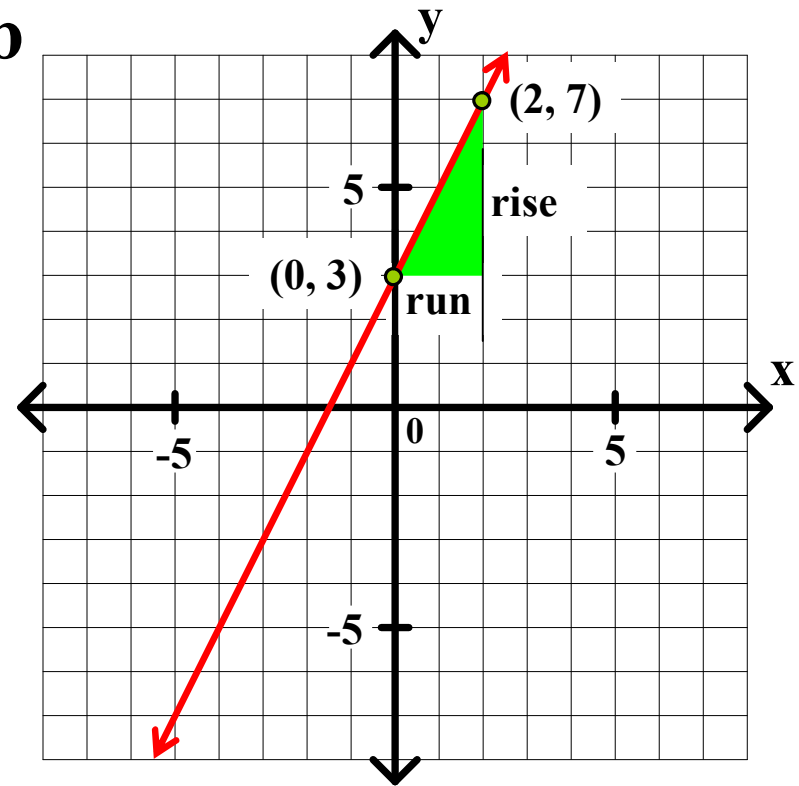
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$$\mathbf{m = \frac{\text{rise}}{\text{run}} = \frac{7 - 3}{2 - 0} = \frac{4}{2} = 2}$$

$$\mathbf{\text{In general, } m = \frac{y_2 - y_1}{x_2 - x_1}}$$

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

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Algebra I Class Worksheet #1 Unit 7

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x_1 y_1 x_2

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The point (0, 3) is on the y-axis !!

Algebra I Class Worksheet #1 Unit 7

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The point (0, 3) is on the y-axis !! $\rightarrow b = 3$

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

11. The line through $(0, 3)$ and $(2, 7)$.

$$\underline{y = 2x + 3}$$

oblique line $\rightarrow y = mx + b$

$$m = \frac{\text{rise}}{\text{run}} = \frac{7-3}{2-0} = \frac{4}{2} = 2$$

The point $(0, 3)$ is on the y-axis !! $\rightarrow b = 3$

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Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

12. The line through $(-4, 5)$ and $(0, 2)$. _____

Algebra I Class Worksheet #1 Unit 7

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Algebra I Class Worksheet #1 Unit 7

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The line is not vertical !!

Algebra I Class Worksheet #1 Unit 7

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Algebra I Class Worksheet #1 Unit 7

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The line is not horizontal !!

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oblique line

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oblique line $\rightarrow y = mx + b$

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oblique line $\rightarrow y = mx + b$

m =

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oblique line \rightarrow $y = mx + b$

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

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$$m = \frac{\text{rise}}{\text{run}} = \underline{\hspace{2cm}}$$

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$$\mathbf{m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}}$$

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$$m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2}{-4}$$

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$$m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 5}{0 - -4} = \frac{-3}{4}$$

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The point $(0, 2)$ is on the y-axis !!

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The point $(0, 2)$ is on the y-axis !! $\rightarrow b = 2$

Algebra I Class Worksheet #1 Unit 7

Find the equation of each of the following lines. If the line is oblique, then write its slope-intercept equation.

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

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Good luck on your homework !!

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