Algebra I   Lesson #2 Unit 7
Class Worksheet #2
For Worksheets #2 - #5

Algebra 1 Unit 7 The Equation of a Line

Algebra 1   Unit 7   The Equation of a Line

The Point-Slope Equation

Algebra 1 Unit 7 The Equation of a Line

The Point-Slope Equation

Consider an oblique line

The Point-Slope Equation

Consider an oblique line
with **slope m**

Algebra 1 Unit 7 The Equation of a Line

The Point-Slope Equation

Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

Algebra 1 Unit 7 The Equation of a Line

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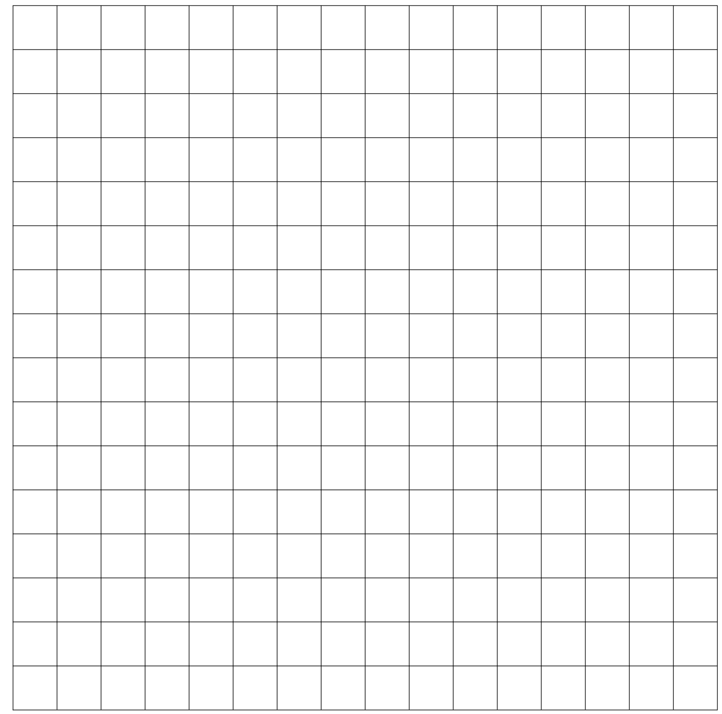

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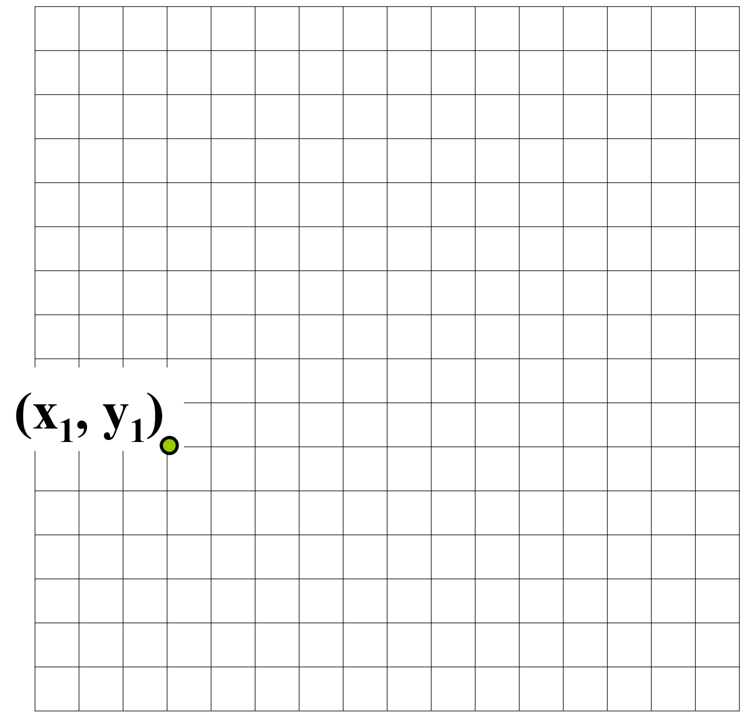

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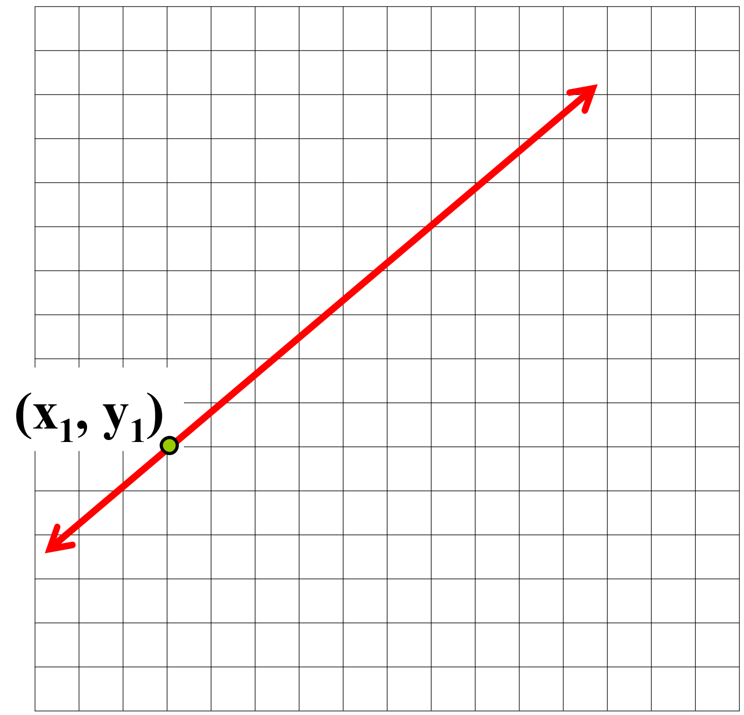
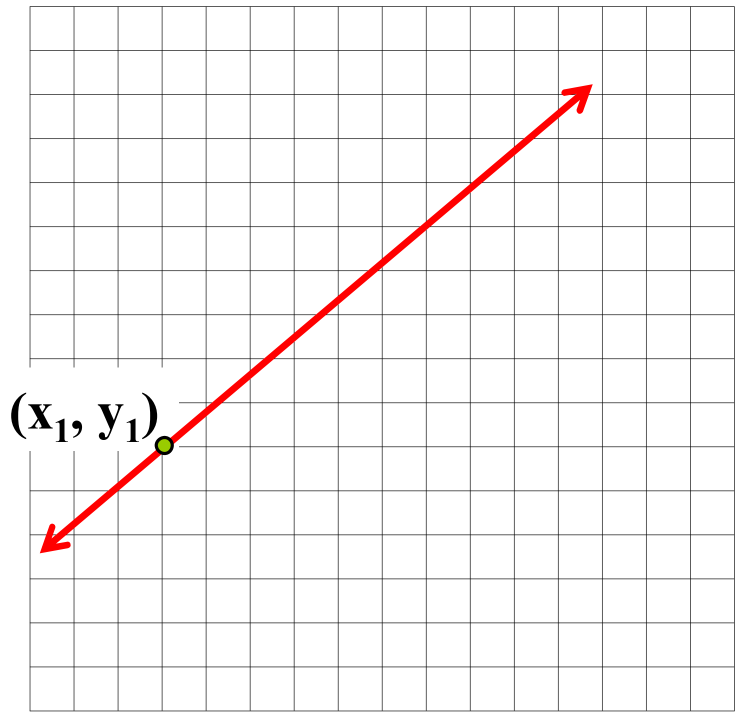


The Point-Slope Equation

Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

Let the point **(x, y)** represent any other point on the line.



Algebra 1 Unit 7 The Equation of a Line

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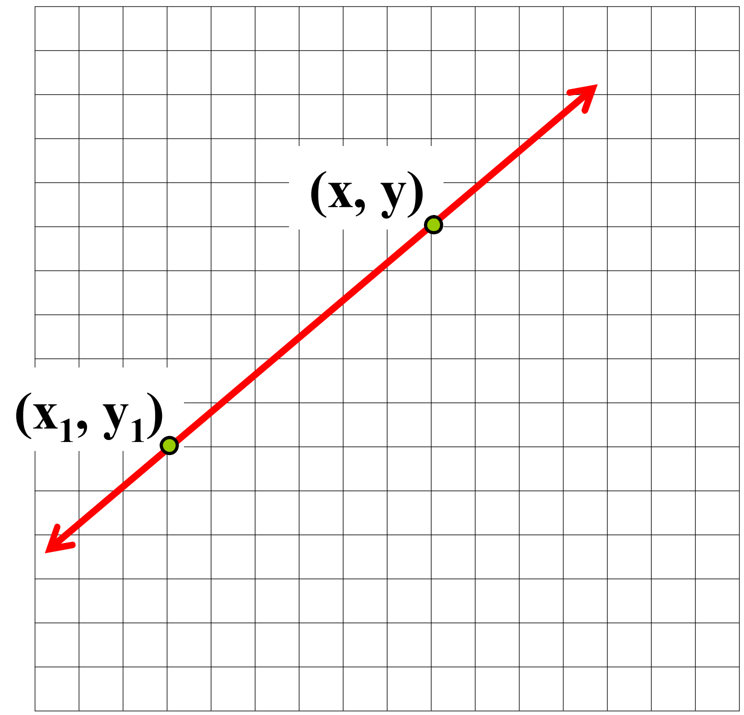

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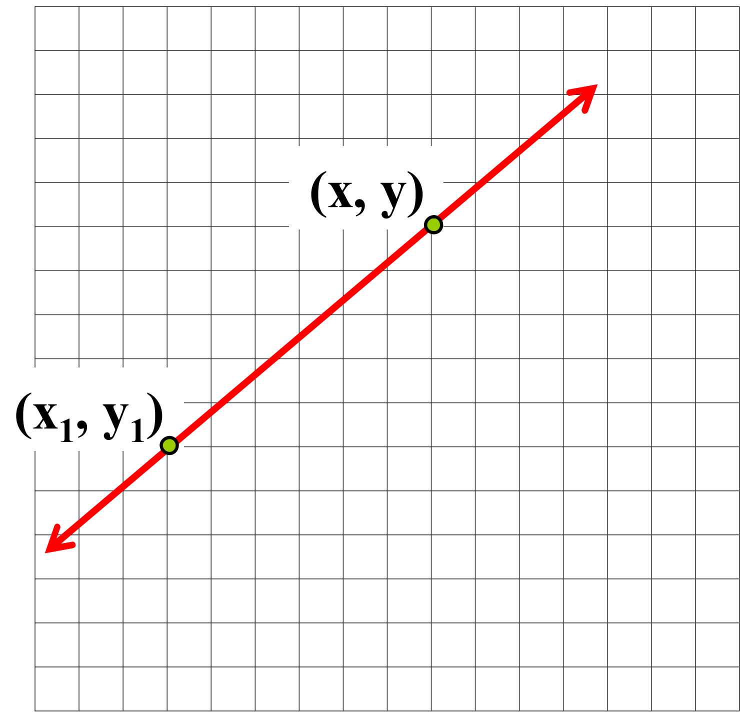
Using these points,



Algebra 1 Unit 7 The Equation of a Line

The Point-Slope Equation

Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

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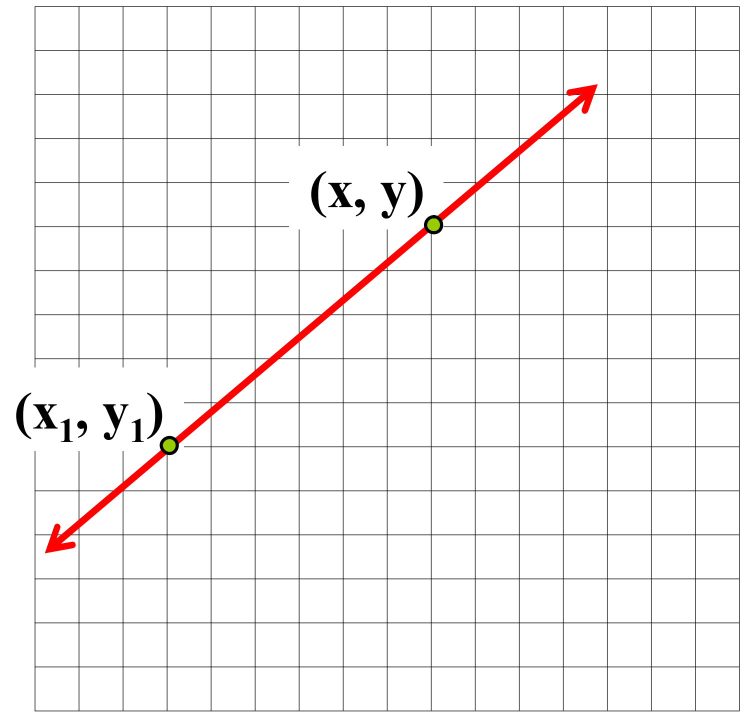
Using these points, the slope of the line can be represented as



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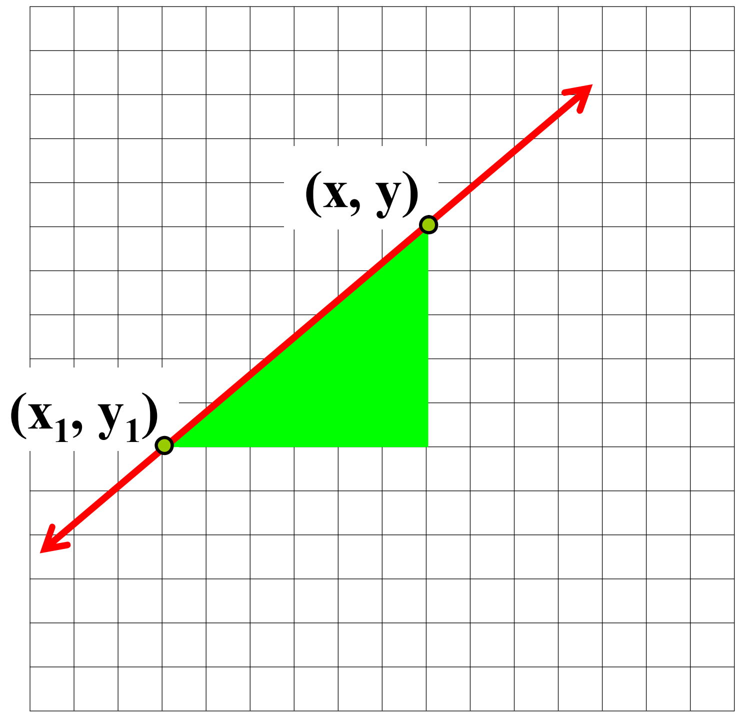

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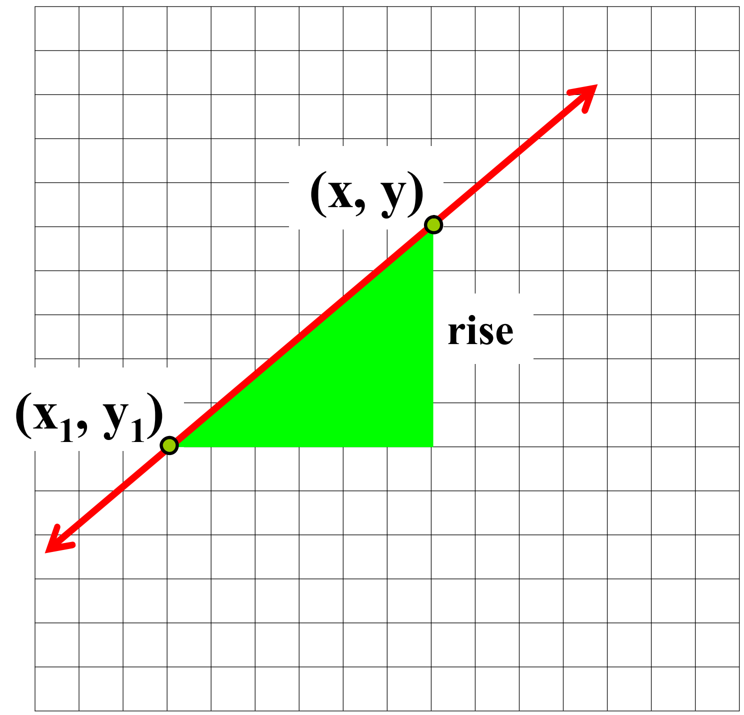

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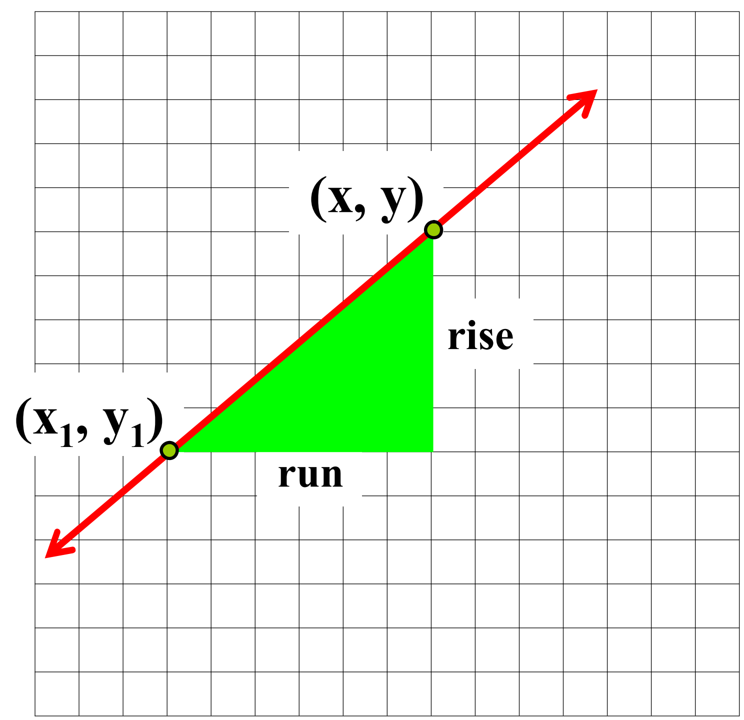

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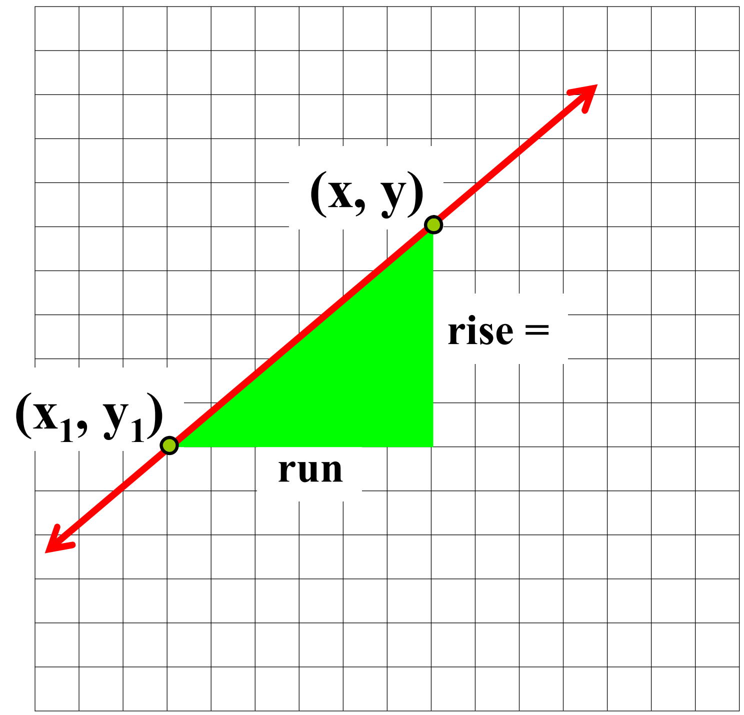

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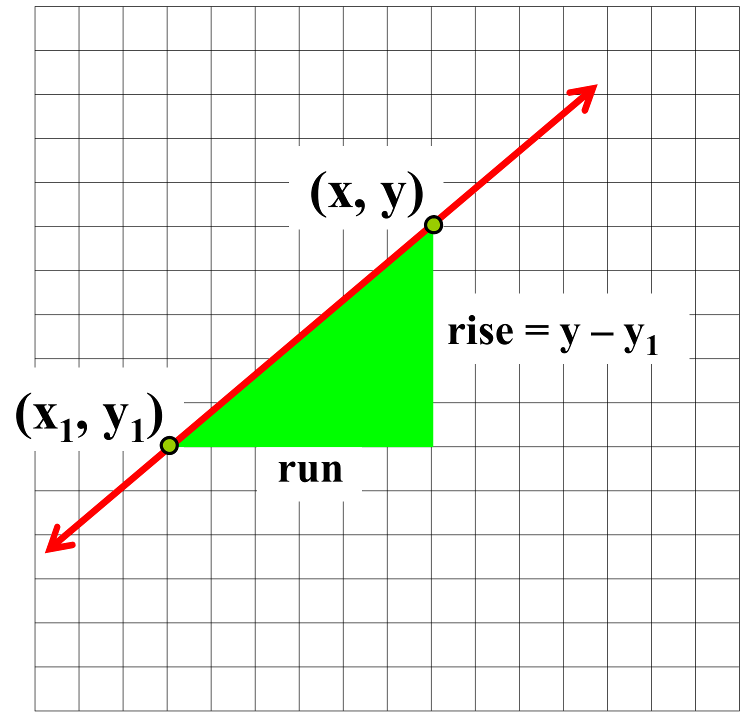

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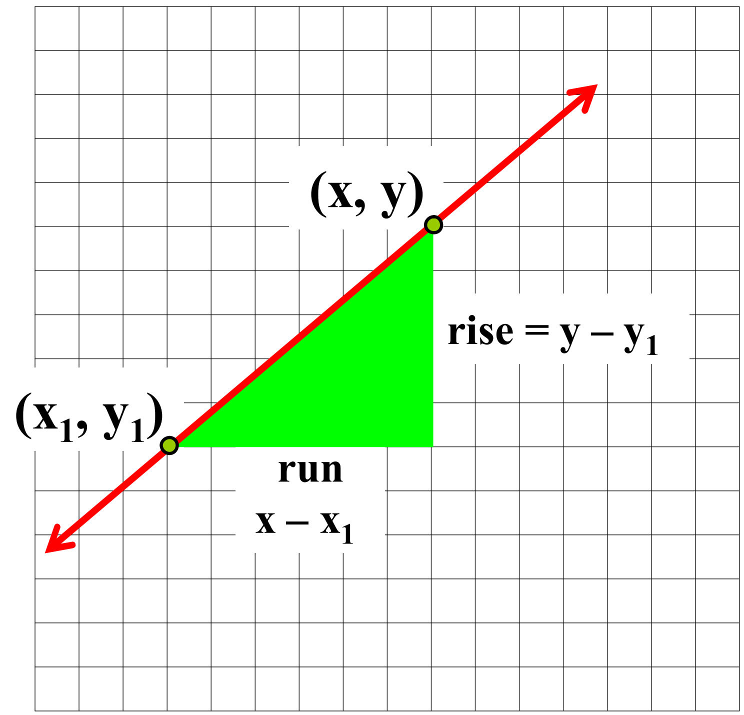

Algebra 1 Unit 7 The Equation of a Line

The Point-Slope Equation

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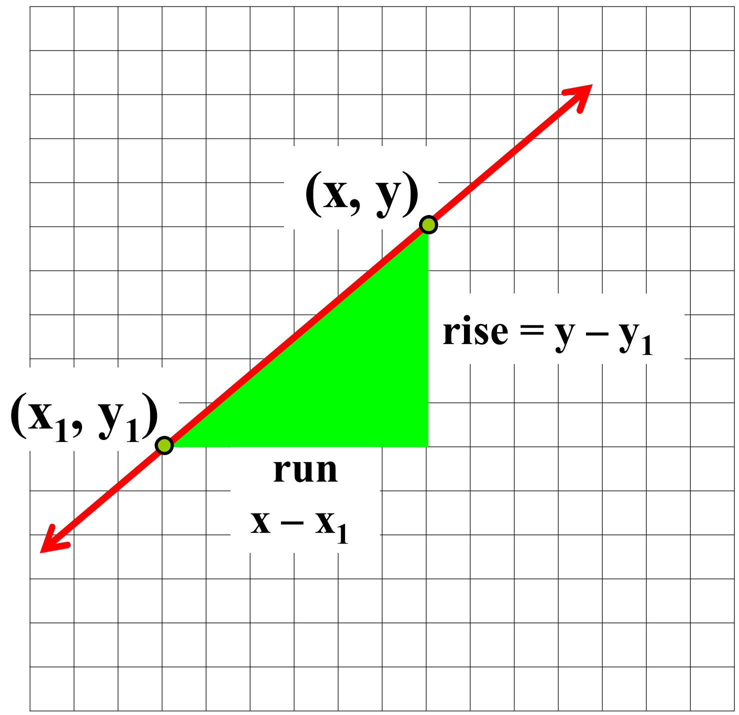
Let the point **(x, y)** represent any other point on the line.

Using these points, the slope of the line can be represented as _____



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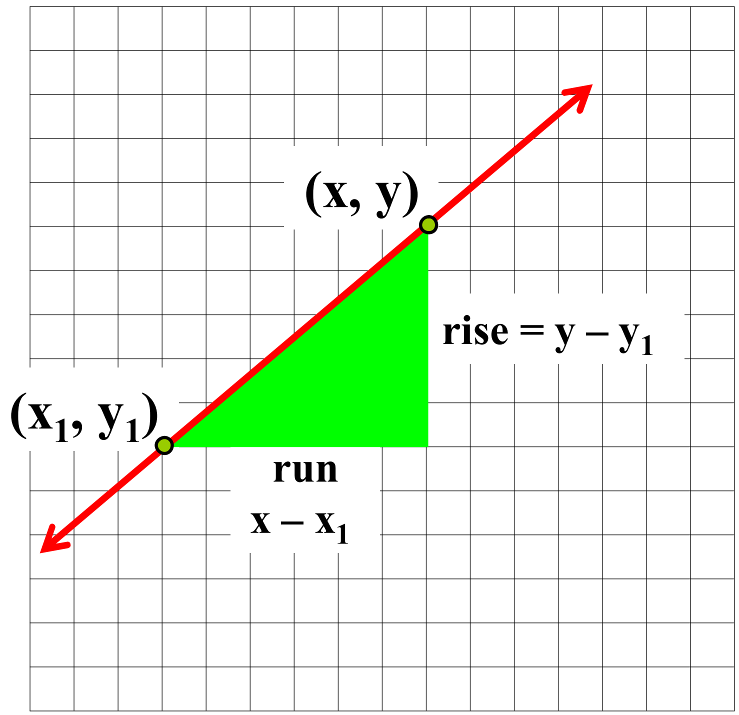
Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

Let the point **(x, y)** represent any other point on the line.

Using these points, the slope of the line can be represented as $\dfrac{y - y_1}{}$



The Point-Slope Equation

Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

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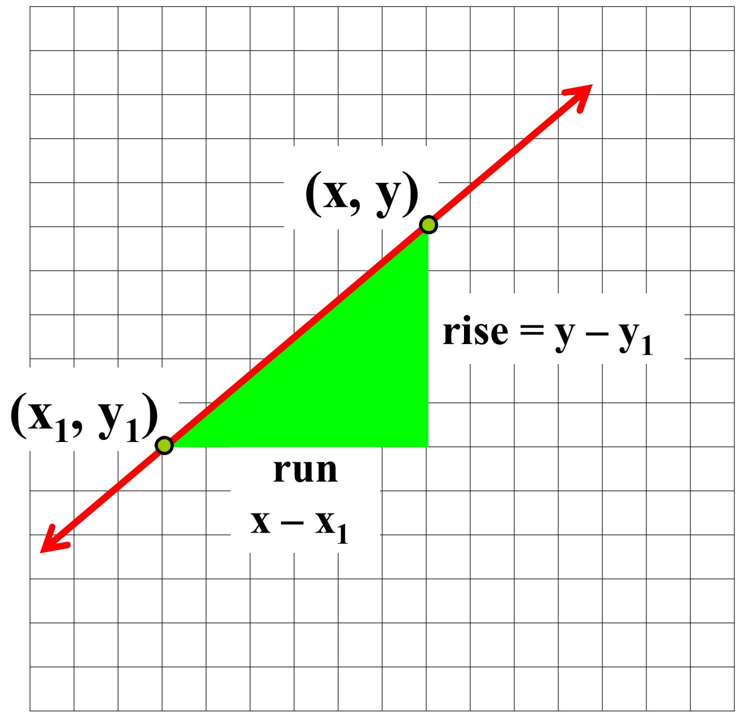
Using these points, the slope of the line can be represented as $\dfrac{y - y_1}{x - x_1}$



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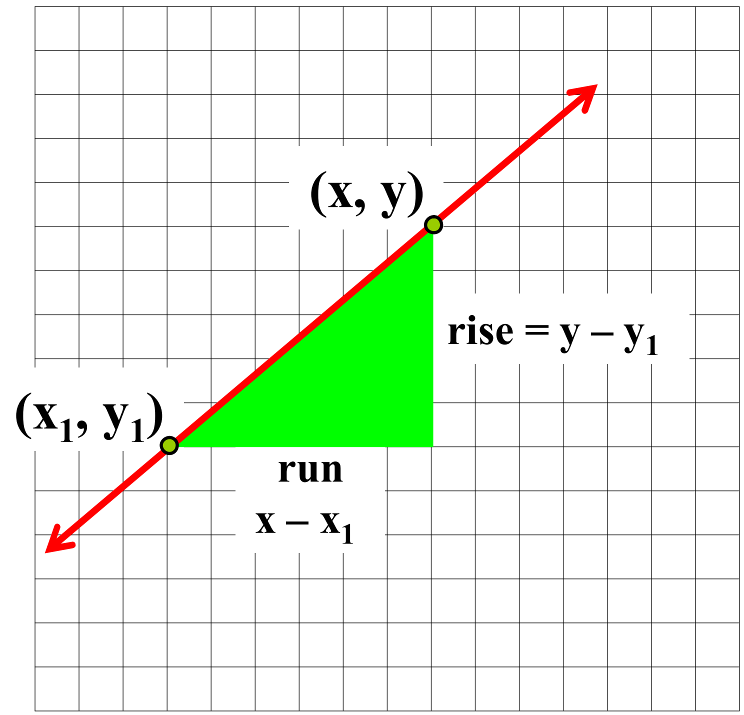

Let the point **(x, y)** represent any other point on the line.

Using these points, the slope of the line can be represented as $$\frac{y - y_1}{x - x_1} = m$$

The Point-Slope Equation

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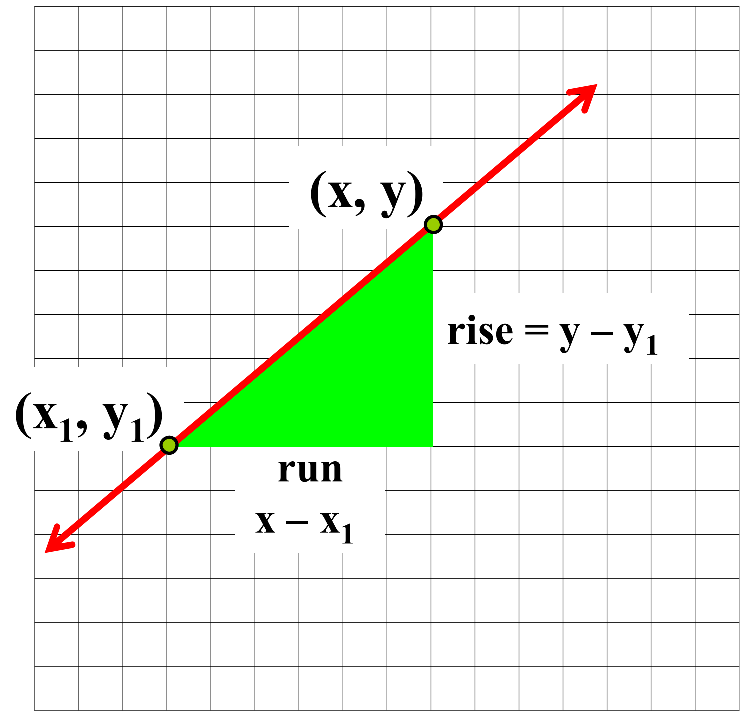

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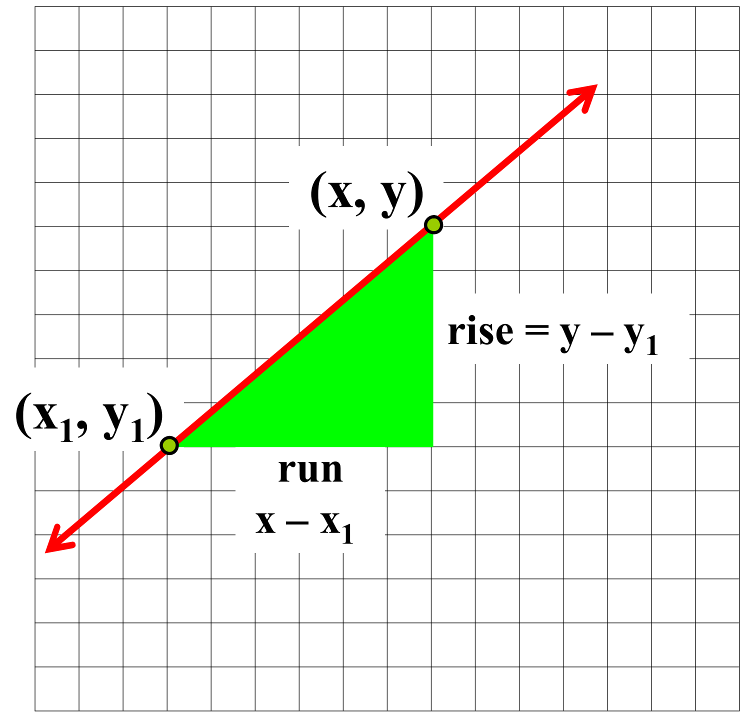
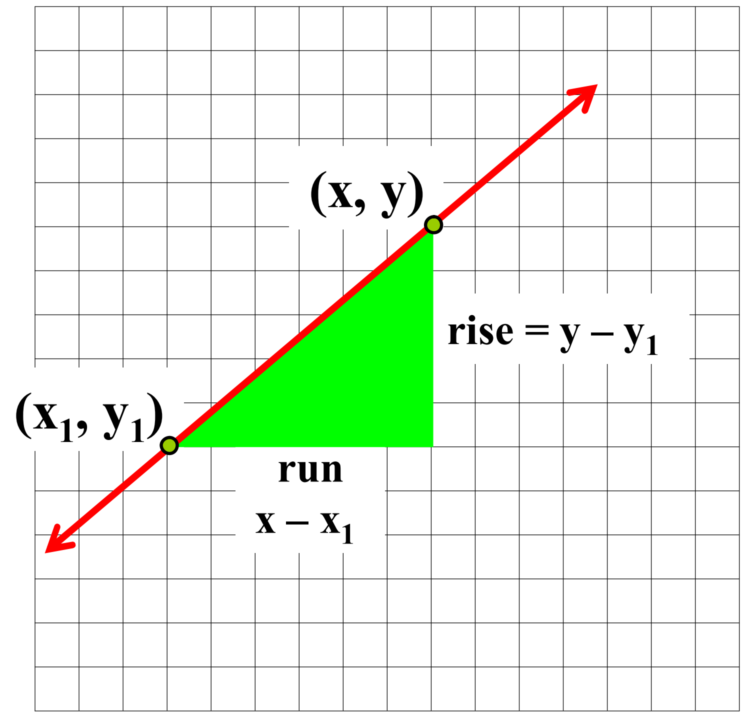


Multiply both sides of this equation by $x - x_1$.

The Point-Slope Equation

Consider an oblique line with **slope m** through the **point** $(\mathbf{x_1}, \mathbf{y_1})$.



Let the point **(x, y)** represent any other point on the line.

$$\frac{y - y_1}{x - x_1} = m$$

$$y - y_1$$

Multiply both sides of this equation by $\mathbf{x - x_1}$.

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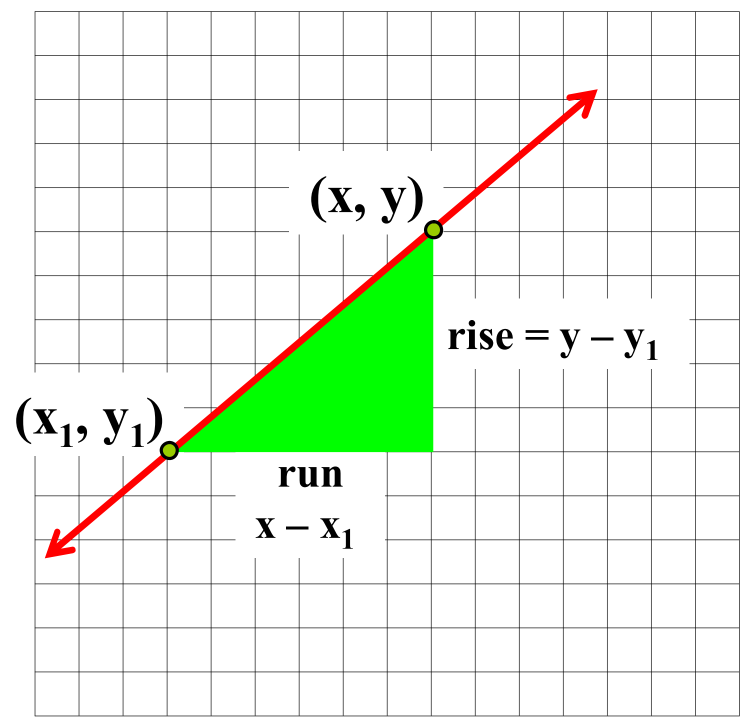

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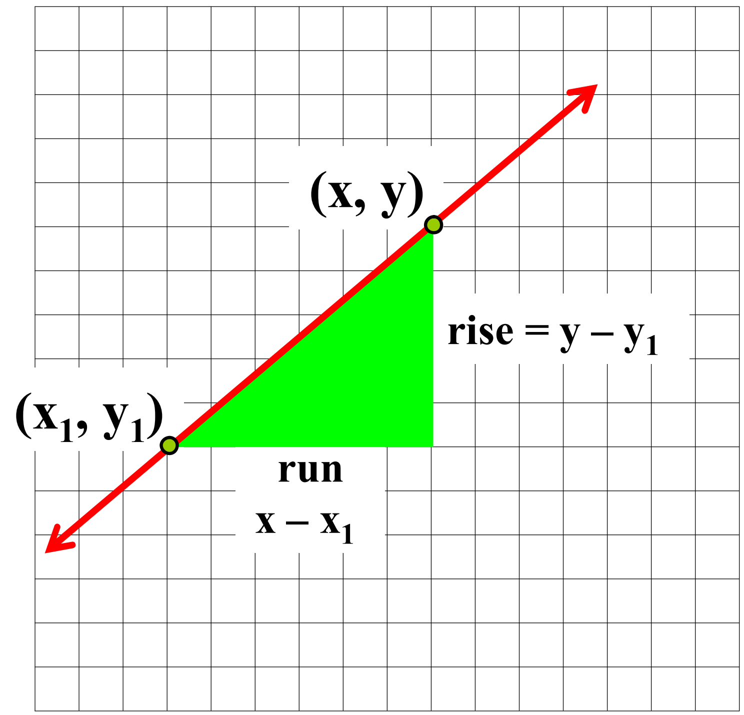

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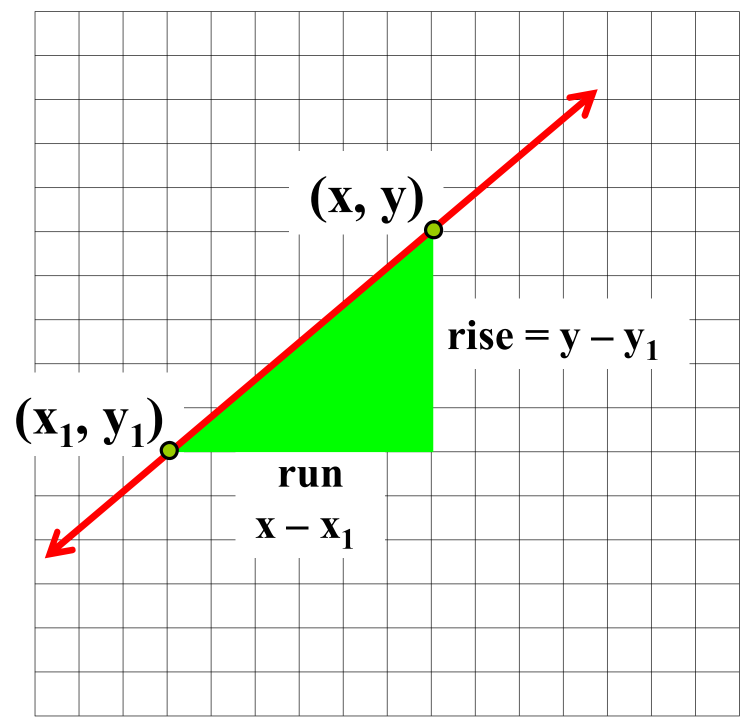
Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

Let the point **(x, y)** represent any other point on the line.

$$\frac{y - y_1}{x - x_1} = m$$

$$y - y_1 = m(x - x_1)$$



Multiply both sides of this equation by $x - x_1$.

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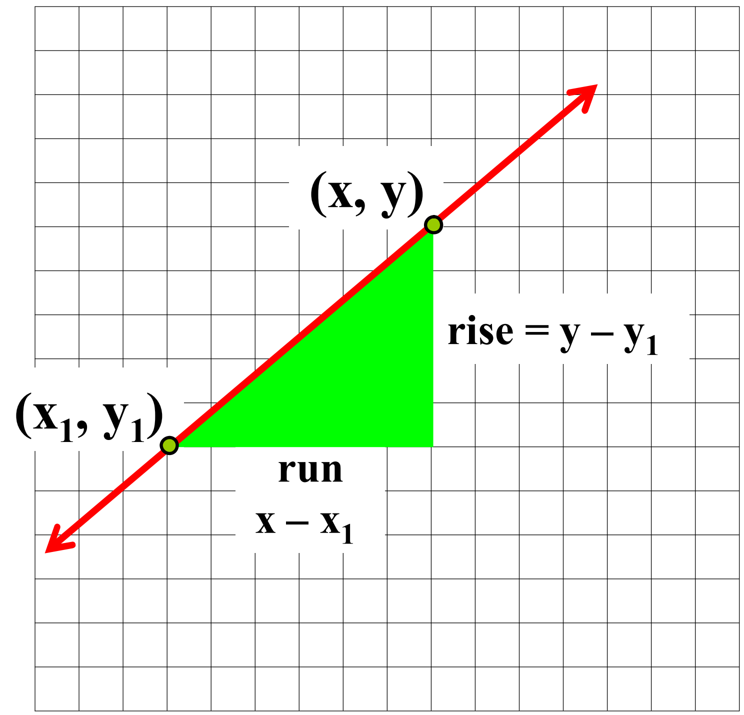

Algebra 1 Unit 7 The Equation of a Line

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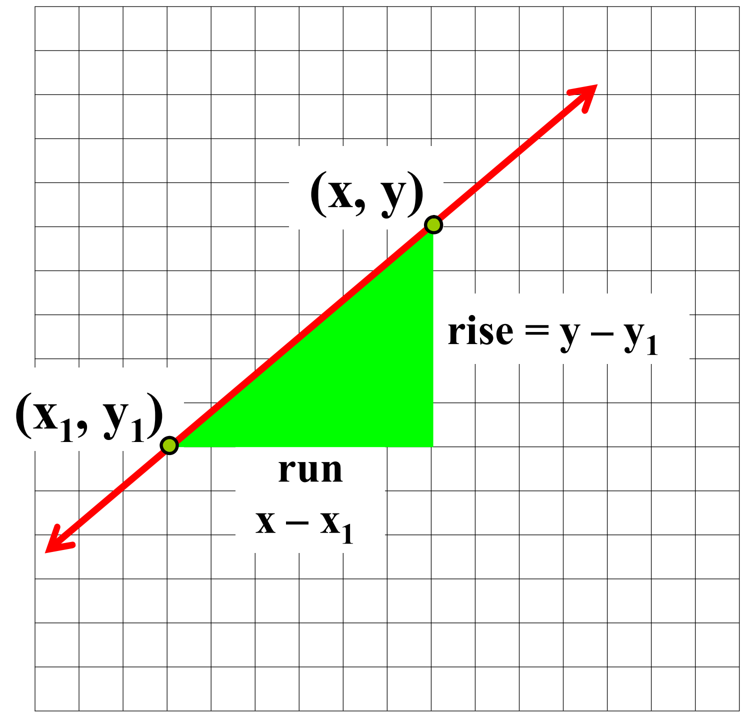
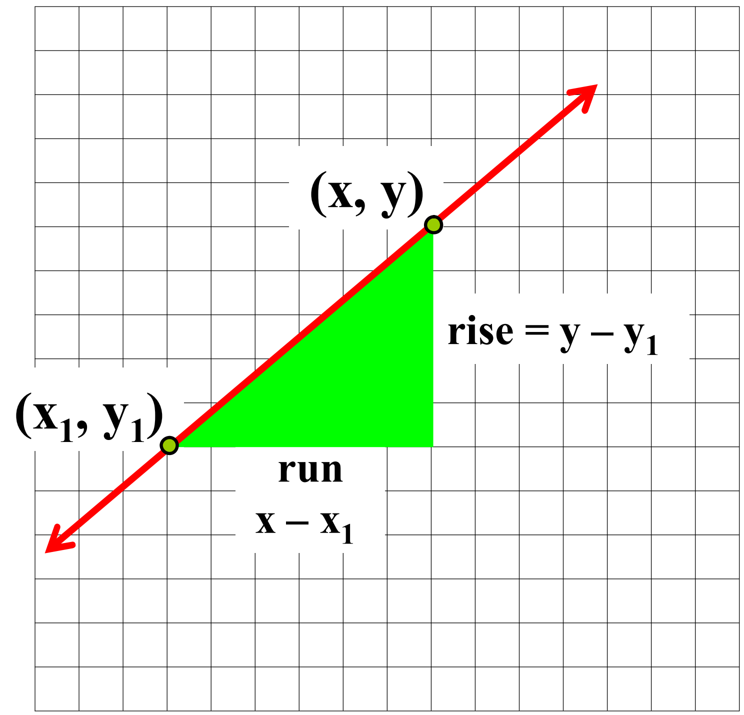


The Point-Slope Equation

Consider an oblique line with **slope m** through the **point (x_1, y_1)**.

$$\mathbf{y - y_1 = m(x - x_1)}$$

This is called the **point-slope equation.**



Algebra 1 Unit 7 The Equation of a Line

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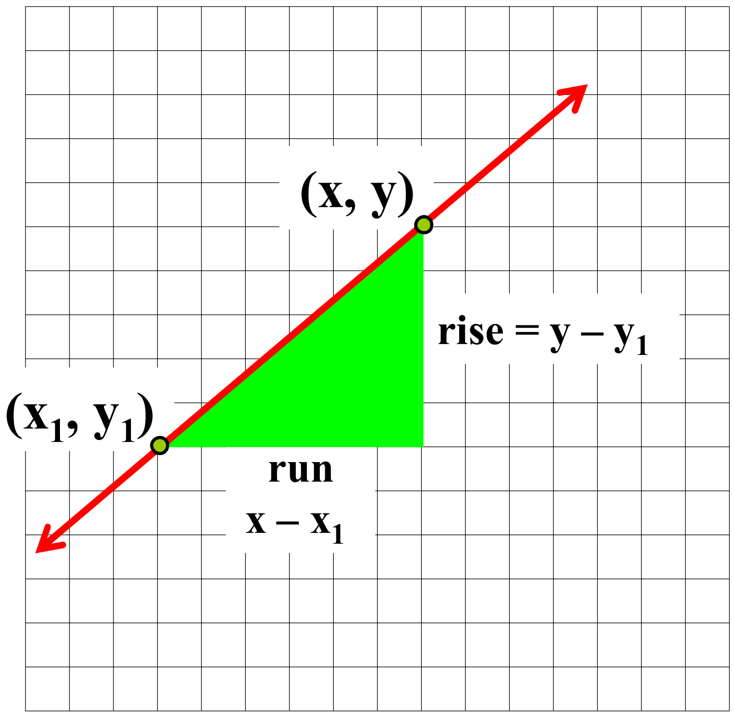

This lesson is designed to show how this important equation is used.

Algebra I   Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

1. **The line with slope 3 through the point (4, 6).**

Algebra I   Class Worksheet #2   Unit 7

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Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

1. **The line with slope 3 through the point (4, 6).**

This line is oblique. ⇨ **$y = mx + b$**

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This line is oblique. → **$y = mx + b$**

$m =$

Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

1. The line with slope 3 through the point (4, 6).

This line is oblique. $\Rightarrow$ $y = mx + b$

$m = 3$

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1. **The line with slope 3 through the point (4, 6).**

This line is oblique. ⇨ **$y = mx + b$**

This point is not on the y-axis.

$m = 3$ $b = ?$

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Use the <u>point-slope</u> equation.

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$y - y_1 = m(x - x_1)$

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$m = 3 \qquad b = ?$

Use the <u>point-slope</u> equation.

$$y - y_1 = m(x - x_1)$$

$$y - 6 = 3(x - 4)$$

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Use the <u>point-slope</u> equation.

$y - y_1 = m(x - x_1)$

$y - 6 = 3(x - 4)$

$y - 6 =$

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Use the <u>point-slope</u> equation.

$y - y_1 = m(x - x_1)$

$y - 6 = 3(x - 4)$

$y - 6 = 3x$

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Use the <u>point-slope</u> equation.

$y - y_1 = m(x - x_1)$

$y - 6 = 3(x - 4)$

$y - 6 = 3x -$

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$\mathbf{m = 3}$ $\quad$ $\mathbf{b = ?}$

Use the <u>point-slope</u> equation.

$$y - y_1 = m(x - x_1)$$

$$y - 6 = 3(x - 4)$$

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

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$$y - 6 = 3(x - 4)$$

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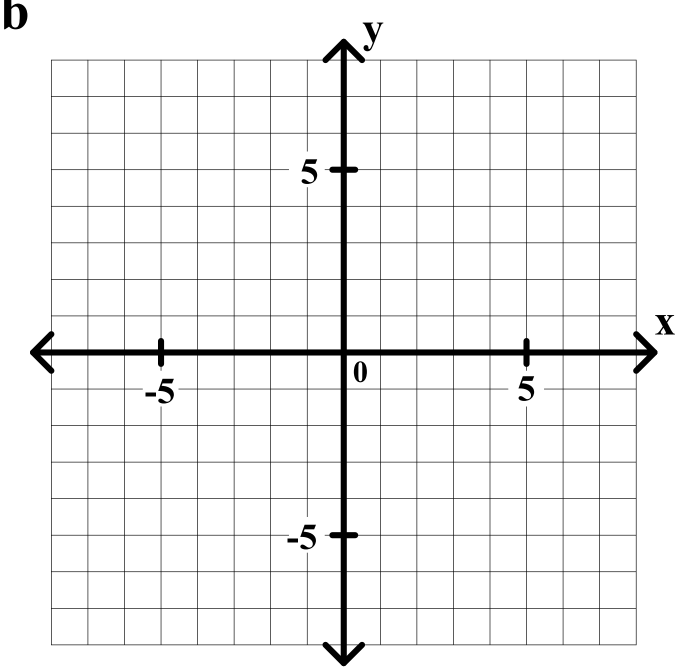

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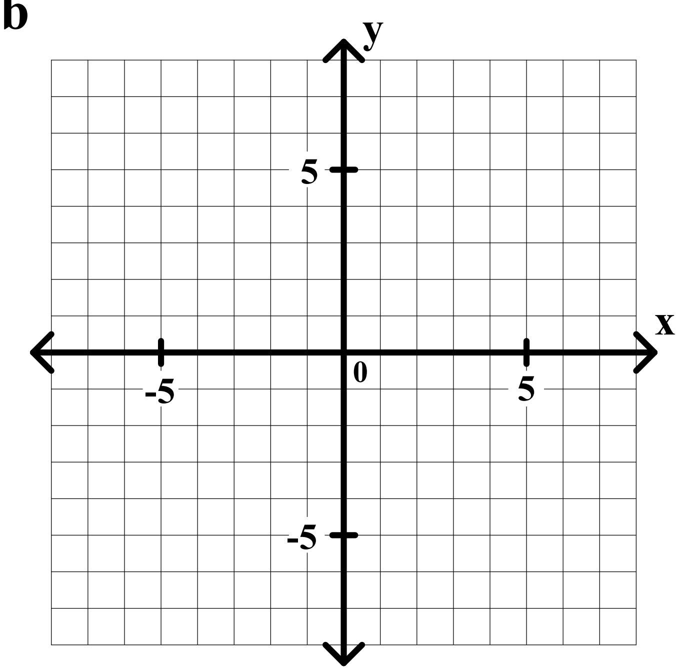

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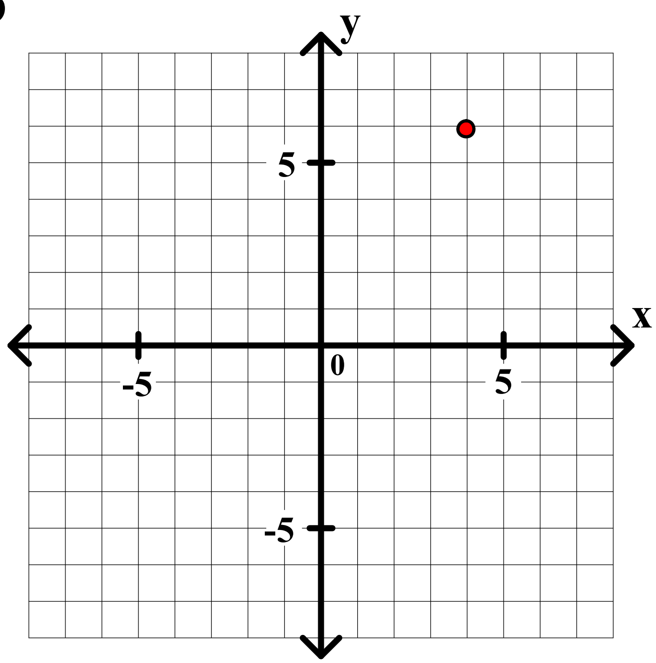

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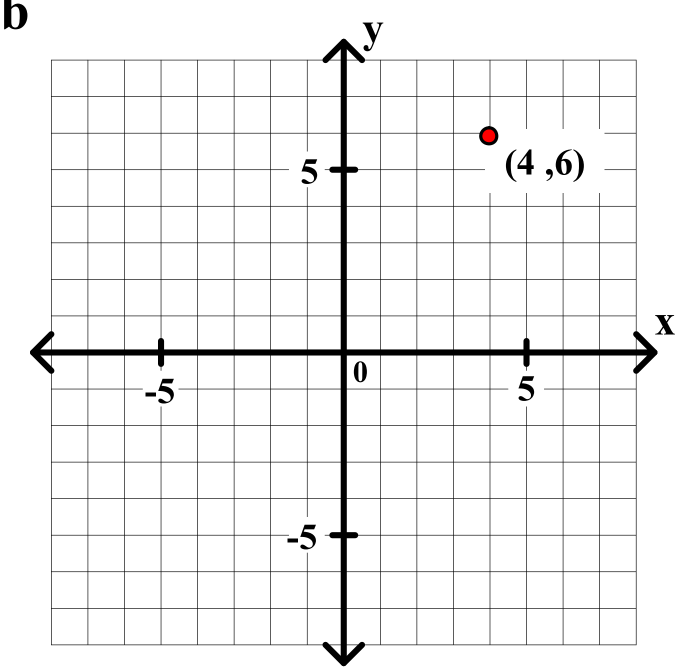

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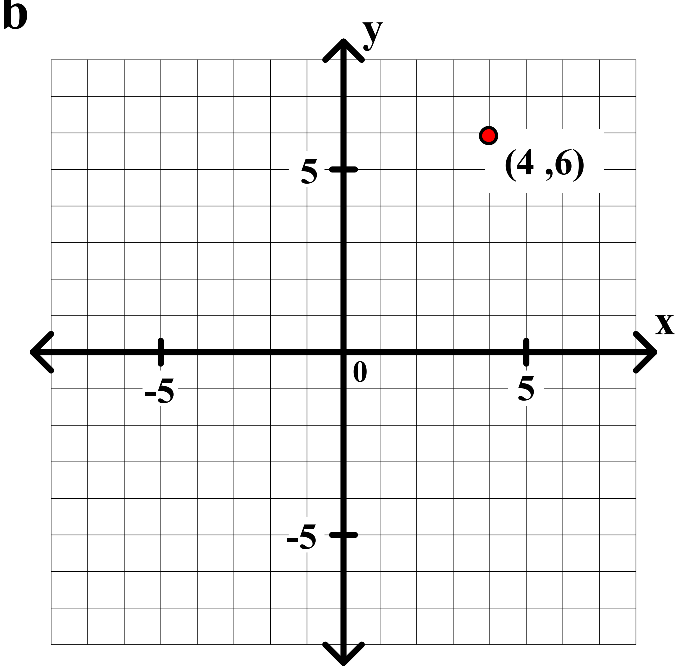

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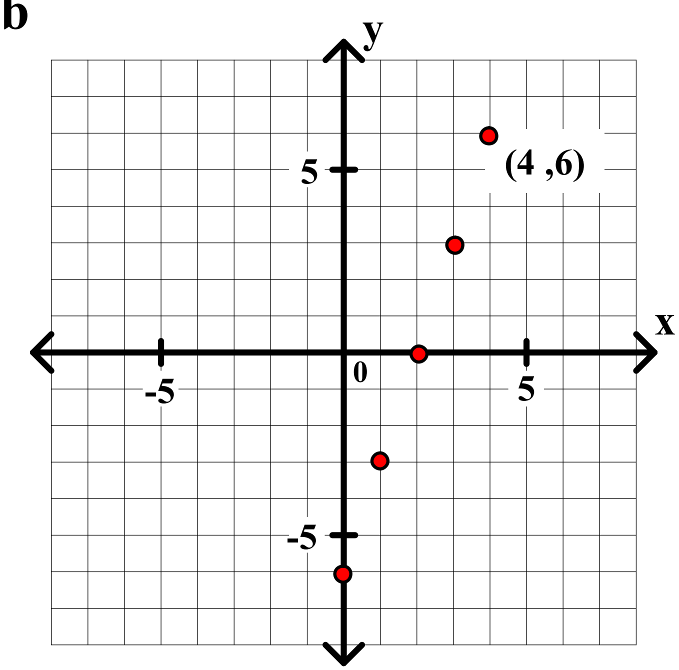

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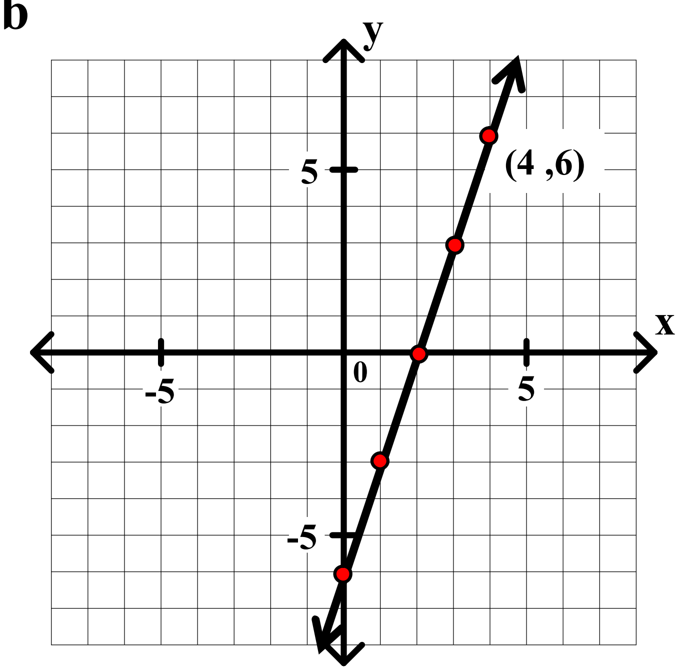

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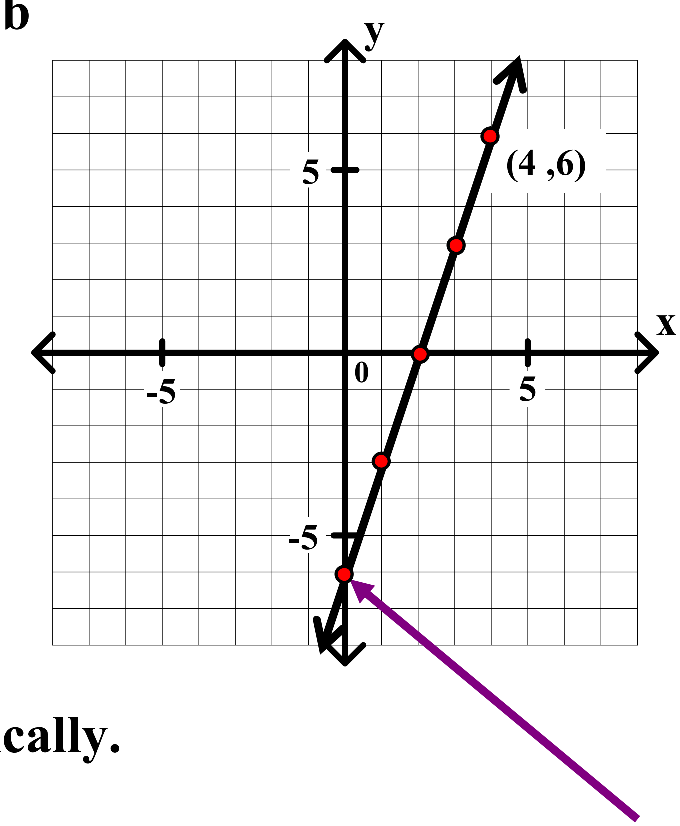

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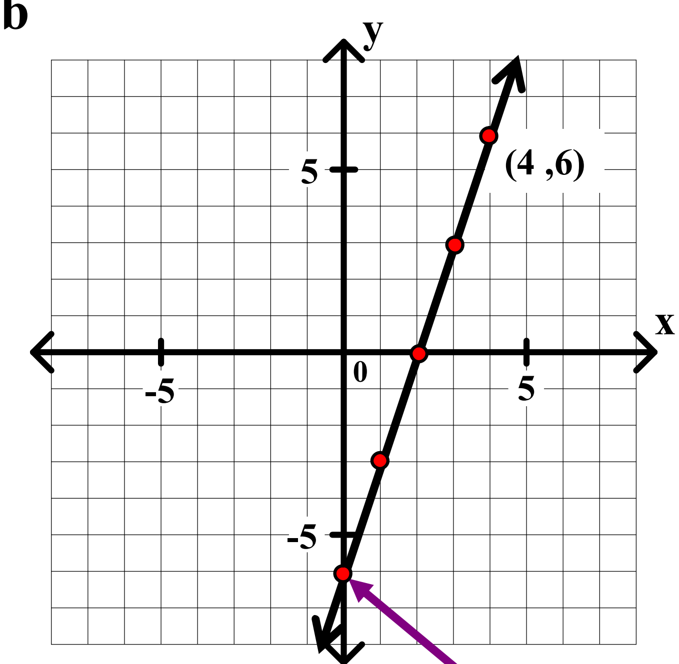

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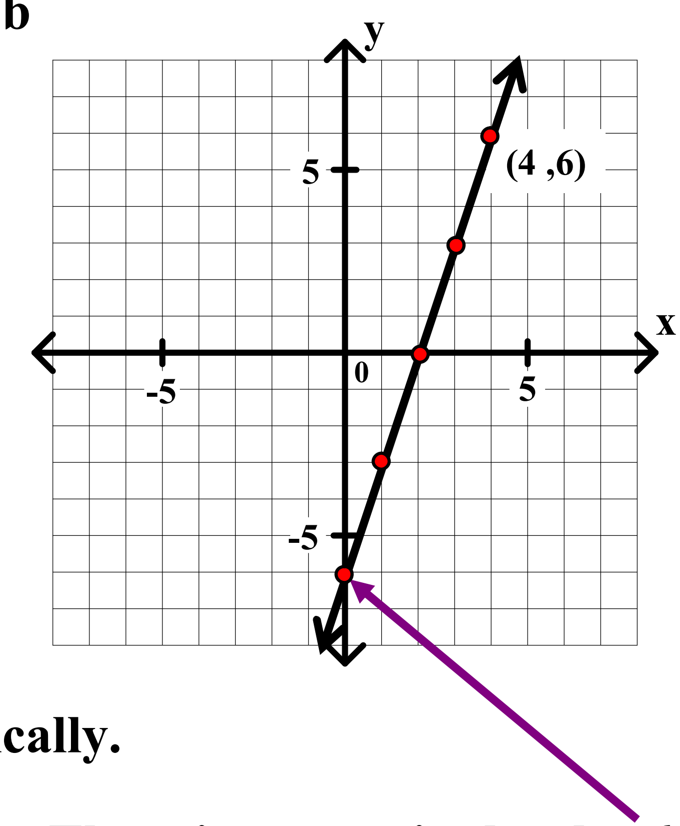

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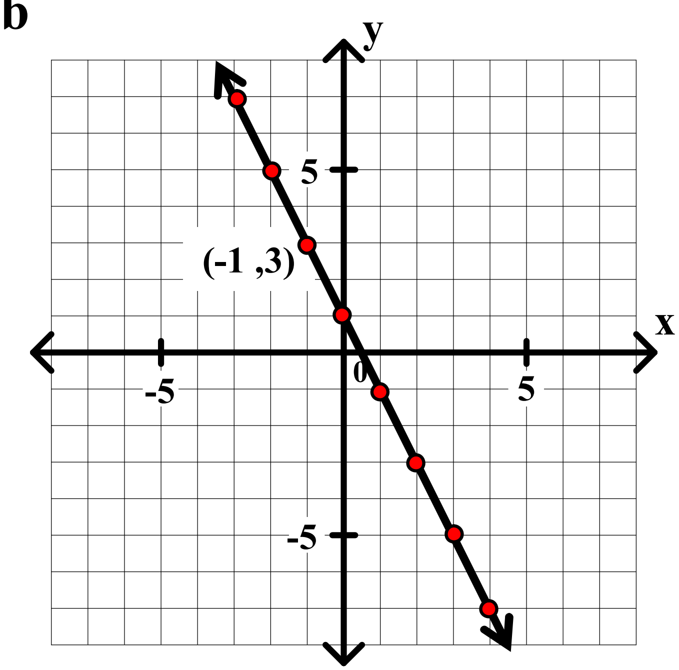

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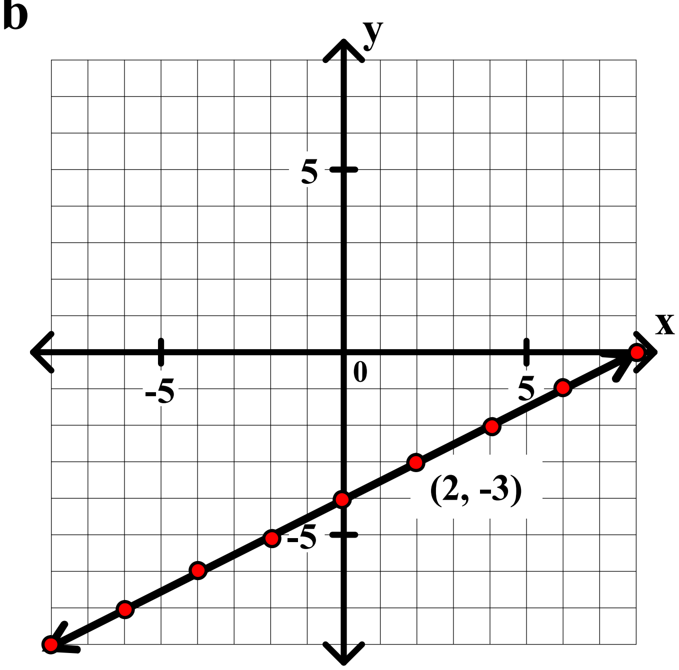

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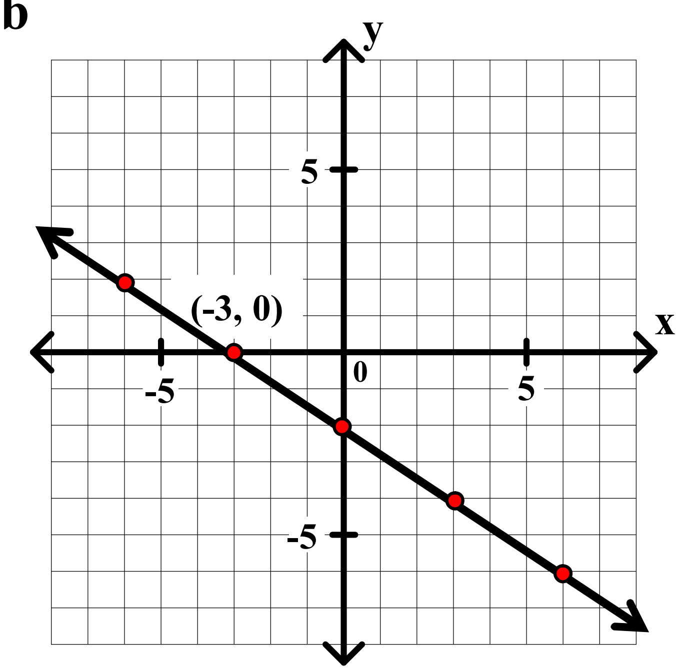

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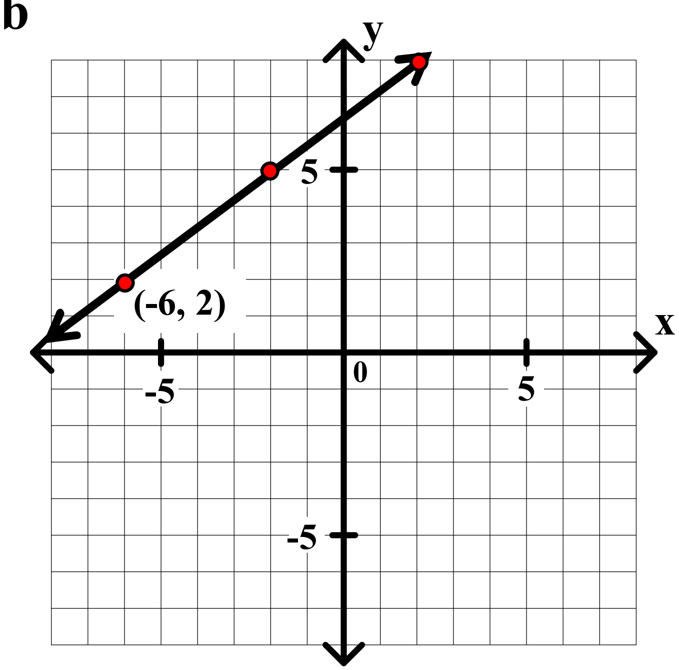

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6. The line through (1, 3) and (3, -3).

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This line is not vertical.

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Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

x_1 $\quad$ x_2

6. The line through (1, 3) and (3, -3).

y_1 $\quad$ y_2

This line is oblique. $\Rightarrow$ $y = mx + b$

$m = ?$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 3}{}$$

Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

6.   The line through $\left(\overset{x_1}{1},\ \underset{y_1}{3}\right)$ **and** $\left(\overset{x_2}{3},\ \underset{y_2}{-3}\right)$**.**

This line is oblique. $\Rightarrow$ $y = mx + b$

$$m = ?$$

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Algebra I Class Worksheet #2 Unit 7

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Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

6. The line through (1, 3) and (3, -3). Neither point is on the y-axis.

This line is oblique. $\Rightarrow$ $y = mx + b$

$m = -3 \qquad b = ?$

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Use the <u>point-slope</u> equation.

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$$y - y_1 = m(x - x_1)$$

$$y - 3 = -3(x - 1)$$

$$y - 3 = -3x + 3$$

$$y = -3x + 6$$

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What if we had used the 'second' point?

Use the <u>point-slope</u> equation.

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Point: (3, -3)

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Point: (3, -3)   slope: -3

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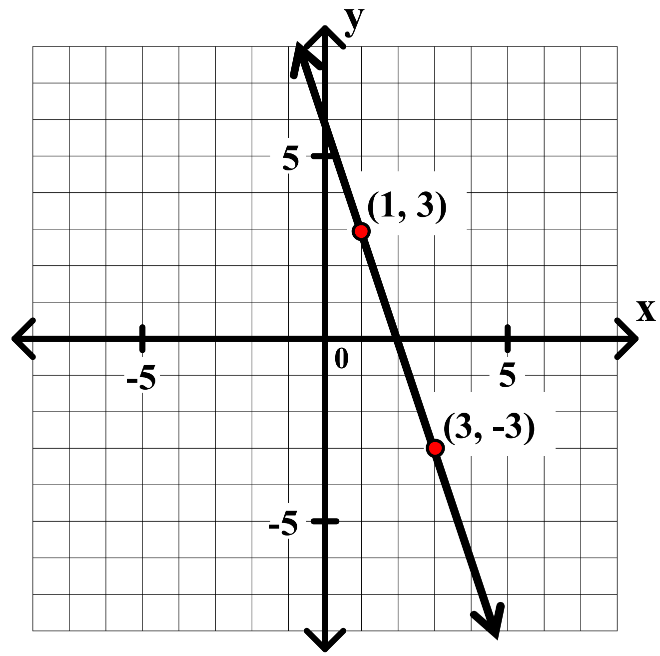

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This line is oblique. **y = mx + b**

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Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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$$y - y_1 = m(x - x_1)$$

$$y - -1 = \frac{1}{2}(x - -4)$$

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

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

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

Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

7. The line through (-4, -1) and (4, 3).

This line is oblique. ⇨ $y = mx + b$

$$m = \frac{1}{2} \qquad b = ?$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - -1}{4 - -4} = \frac{4}{8} = \frac{1}{2}$$

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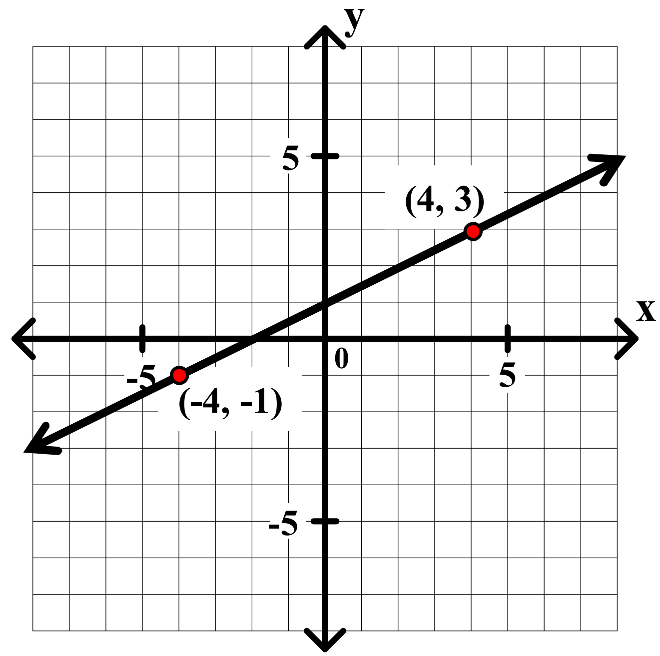

Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

8. The line through (6, -2) and (-3, 4).

Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

8.   The line through (6, -2) and (-3, 4).

Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

The line is not vertical.

8.   The line through (6, -2) and (-3, 4).

Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

The line is not vertical.

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Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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8. The line through (6, -2) and (-3, 4).

The line is not horizontal.

Algebra I Class Worksheet #2   Unit 7

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Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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The line is not vertical.

The line is not horizontal.

This line is oblique.

Algebra I Class Worksheet #2 Unit 7

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Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

8.   The line through (6, -2) and (-3, 4).

This line is oblique. $\Longrightarrow$ **$y = mx + b$**

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4}{\quad}$$

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - -2}{-3 - 6}$$

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - -2}{-3 - 6} = \frac{6}{-9}$$

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Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

8. The line through (6, -2) and (-3, 4). Neither point is on the y-axis.

This line is oblique. → $y = mx + b$

$m = \frac{-2}{3}$ $b = ?$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - -2}{-3 - 6} = \frac{6}{-9} = \frac{-2}{3}$$

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Use the <u>point-slope</u> equation.

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Use the **<u>point-slope</u>** **equation.**

$$y - y_1 = m(x - x_1)$$

$$y - -2 = \frac{-2}{3}(x - 6)$$

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

Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

8. The line through (6, -2) and (-3, 4).

This line is oblique. ⇨ $y = mx + b$

$m = \frac{-2}{3}$ $b = ?$

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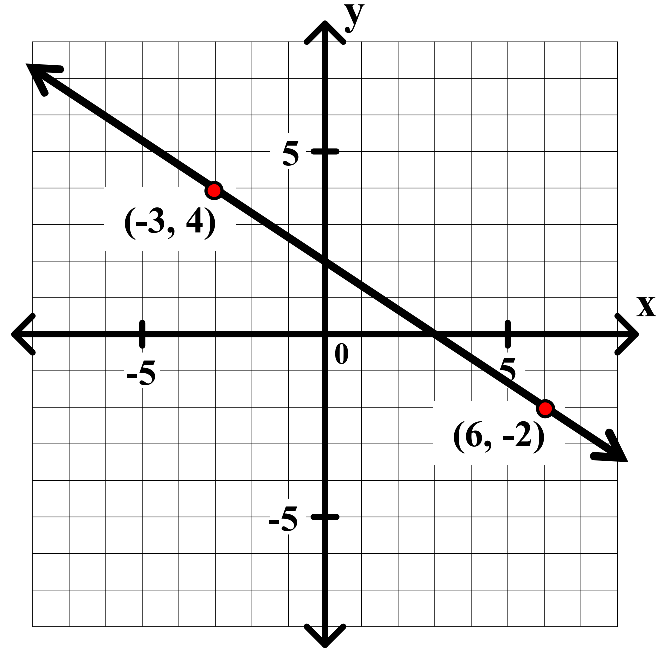

Algebra I Class Worksheet #2   Unit 7

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Algebra I Class Worksheet #2 Unit 7

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Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

The line is not vertical.

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Algebra I Class Worksheet #2 Unit 7

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This line is oblique.

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-6 - 4}{-2 - 2} = \frac{-10}{}$$

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Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

9. The line through (2, 4) and (-2, -6). Neither point is on the y-axis.

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Use the <u>point-slope</u> equation.

$$y - y_1 = m(x - x_1)$$

$$y - 4 = \frac{5}{2}(x - 2)$$

$$y - 4 = \frac{5}{2}x - 5$$

Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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

This line is oblique. ⇨ $y = mx + b$

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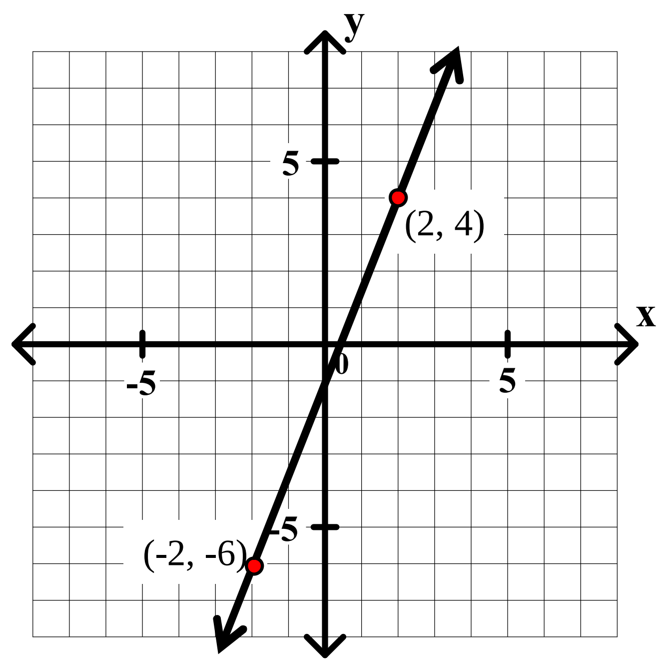

Algebra I Class Worksheet #2   Unit 7

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Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

10. The line through (-2, 5) and (4, -3). **The line is not vertical.**

Algebra I Class Worksheet #2 Unit 7

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Algebra I Class Worksheet #2   Unit 7

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Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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

The line is not vertical.

The line is not horizontal.

Algebra I Class Worksheet #2   Unit 7

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Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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

The line is not vertical.

The line is not horizontal.

This line is oblique.

Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 5}{4}$$

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$m = ?$

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 5}{4 - -2} = \underline{-8}$$

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$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 5}{4 - -2} = \frac{-8}{6}$$

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

This line is oblique. $\Rightarrow$ **$y = mx + b$**

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Algebra I Class Worksheet #2 Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

10. The line through (-2, 5) and (4, -3). Neither point is on the y-axis.

This line is oblique. ➡ **$y = mx + b$**

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Use the point-slope equation.

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Algebra I Class Worksheet #2   Unit 7

Write the equation of each line described. If the line is oblique, then write the slope-intercept equation.

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

This line is oblique. ⇨ $y = mx + b$

$m = \frac{-4}{3}$ $b = ?$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 5}{4 - -2} = \frac{-8}{6} = \frac{-4}{3}$$

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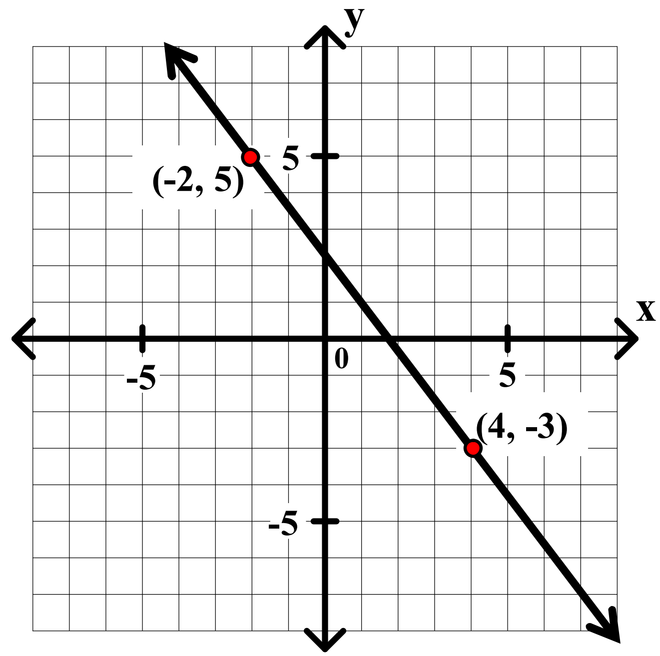

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Good luck on your homework !!

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