

Algebra I Lesson #3 Unit 7
Class Worksheet #3
For Worksheets #6 - #8

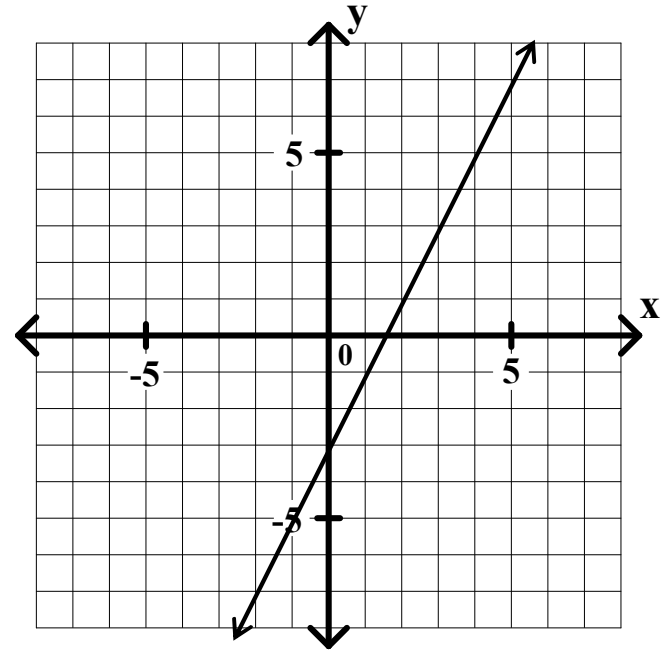
Algebra I Unit 7 Linear Inequalities With 2 Variables

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Consider the equation $y = 2x - 3$.

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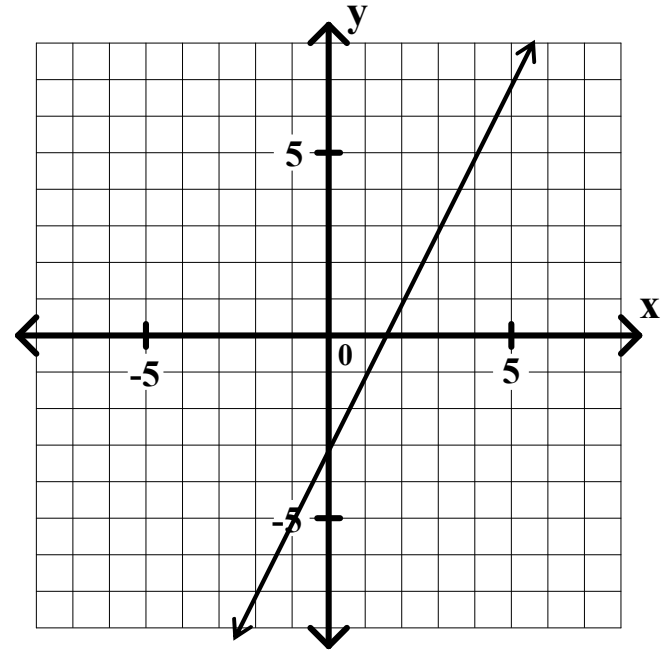
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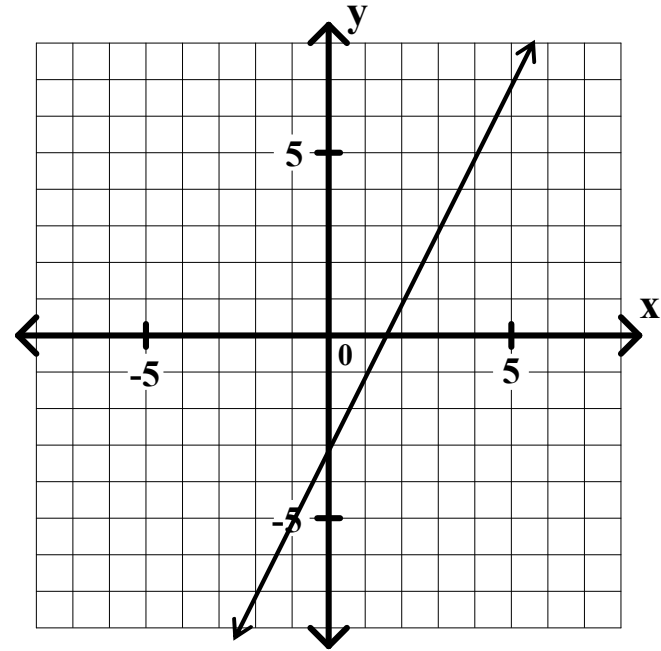


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(a) the points on the line

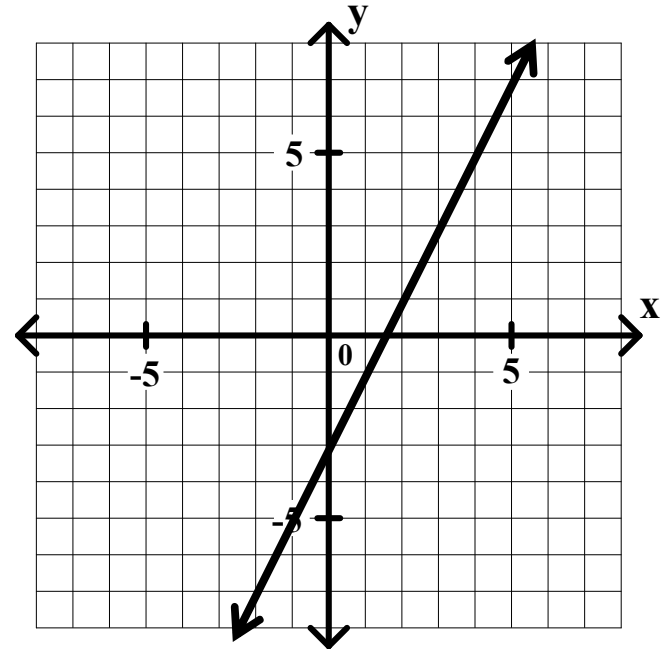


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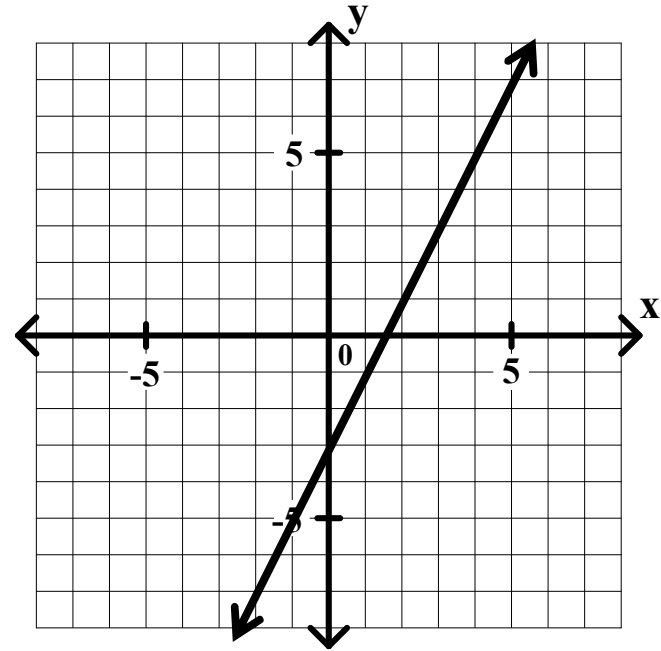


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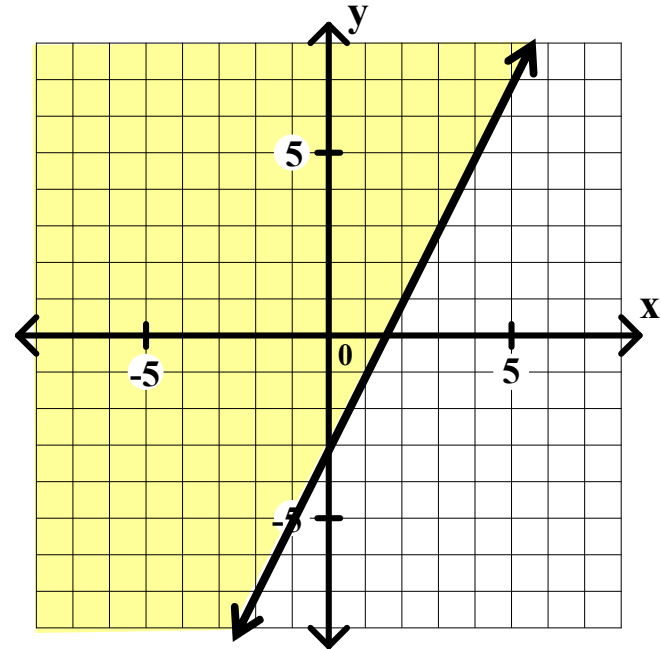


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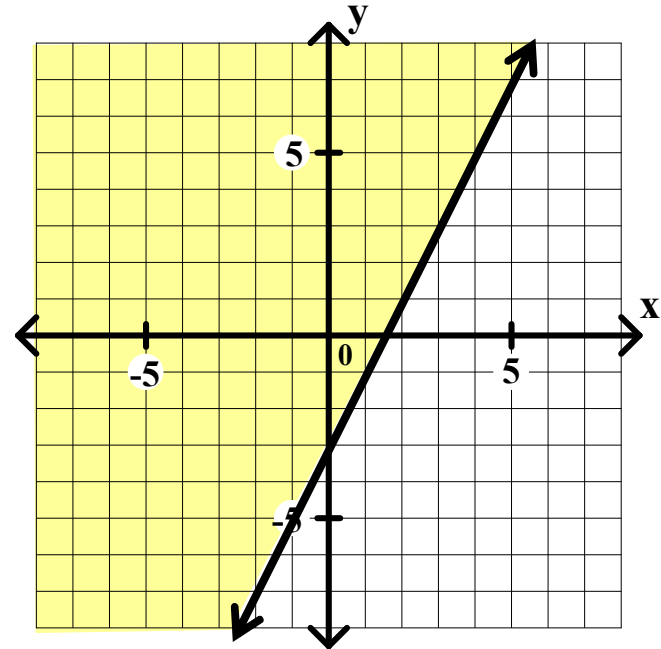


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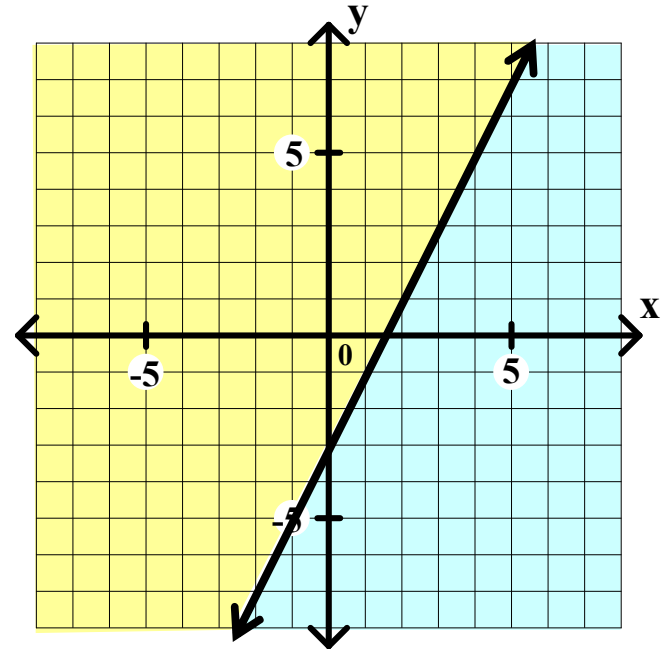


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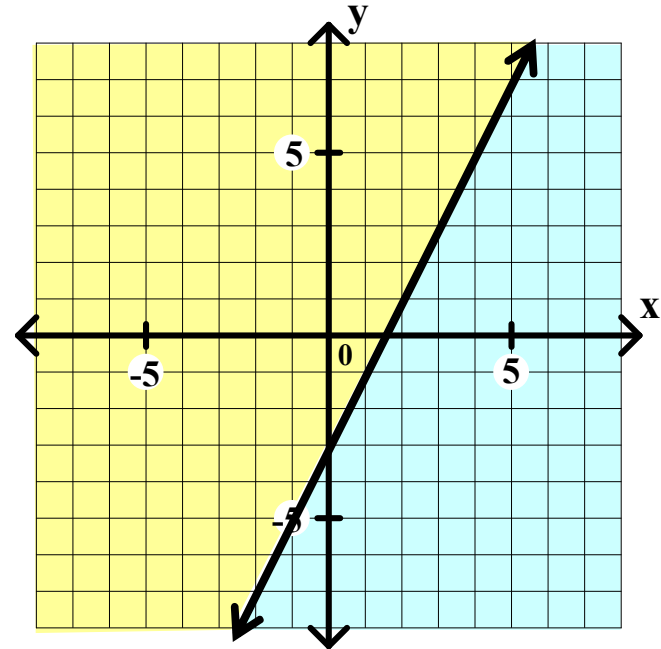


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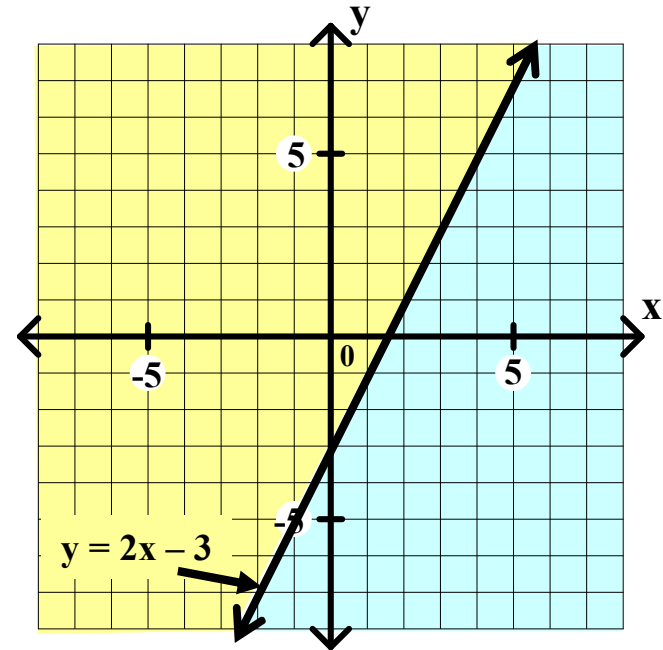
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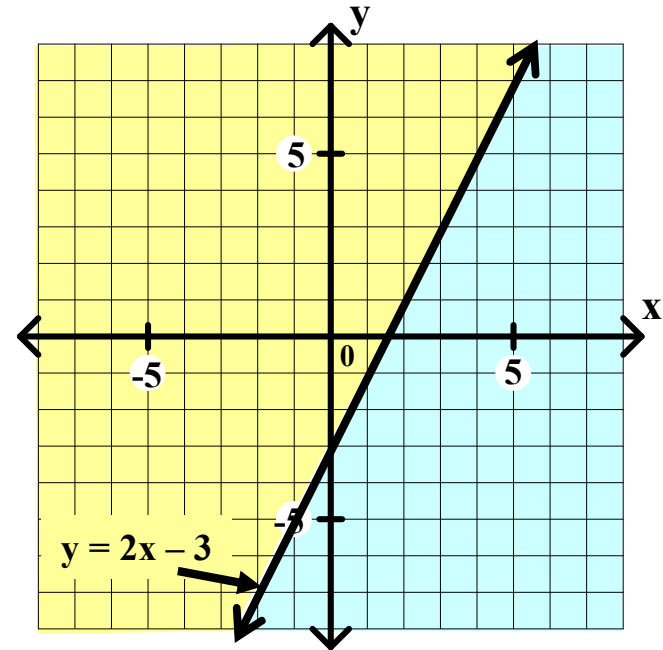
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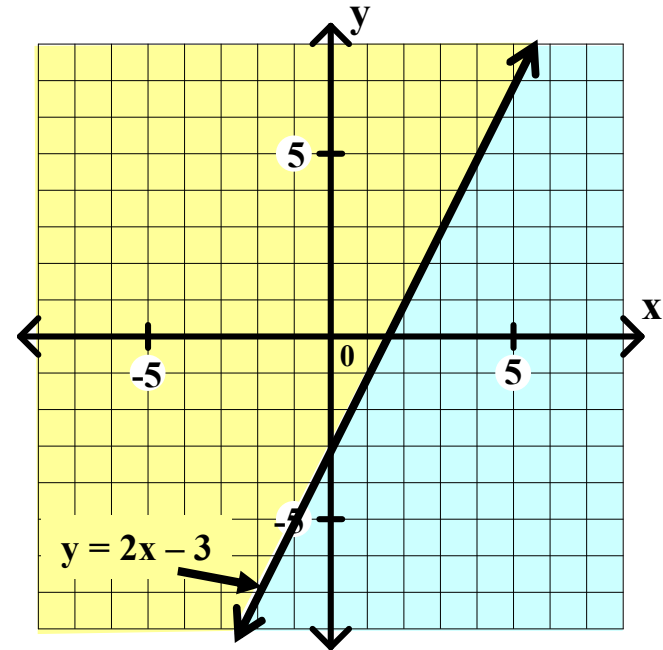
Of course the points **on** the line make the equation true. This lesson is concerned with the other two sets of points.

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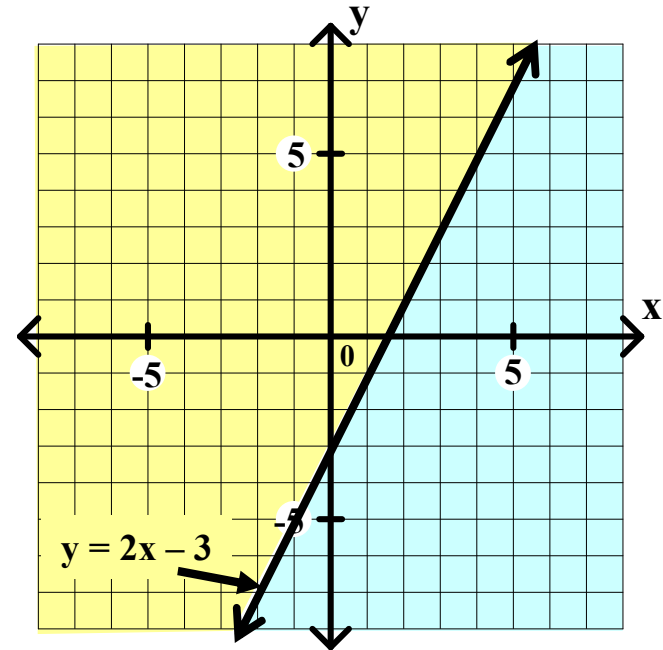


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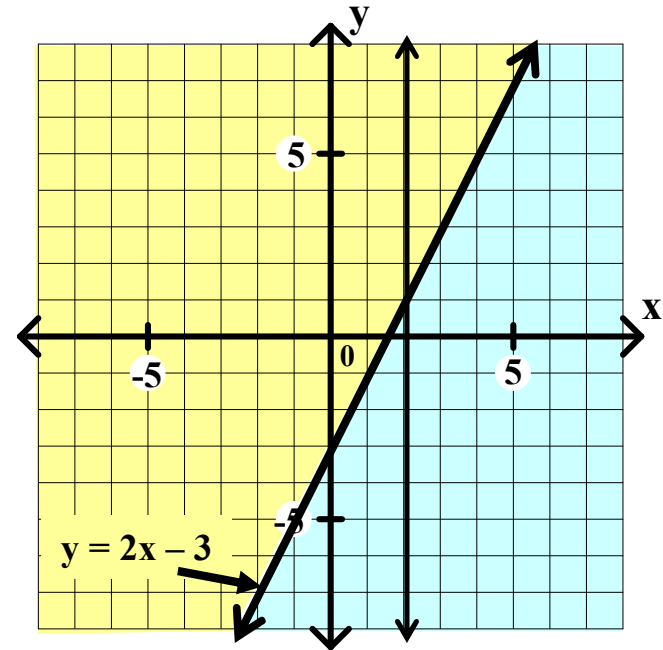
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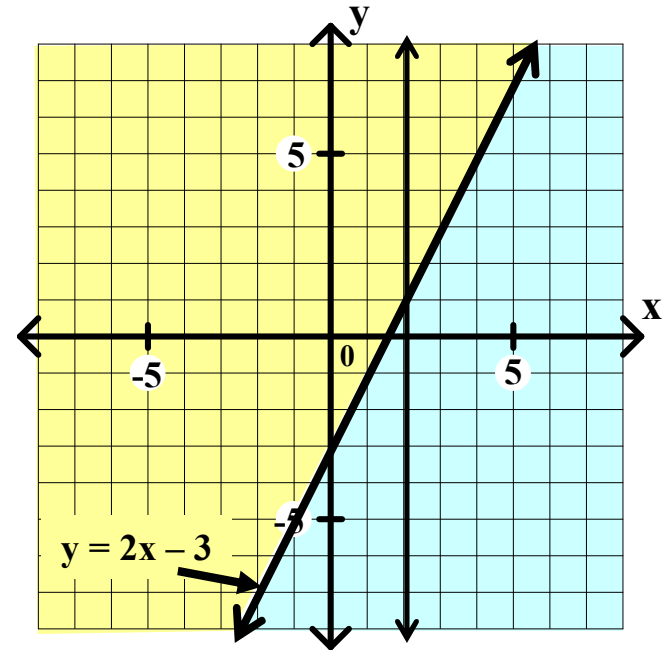
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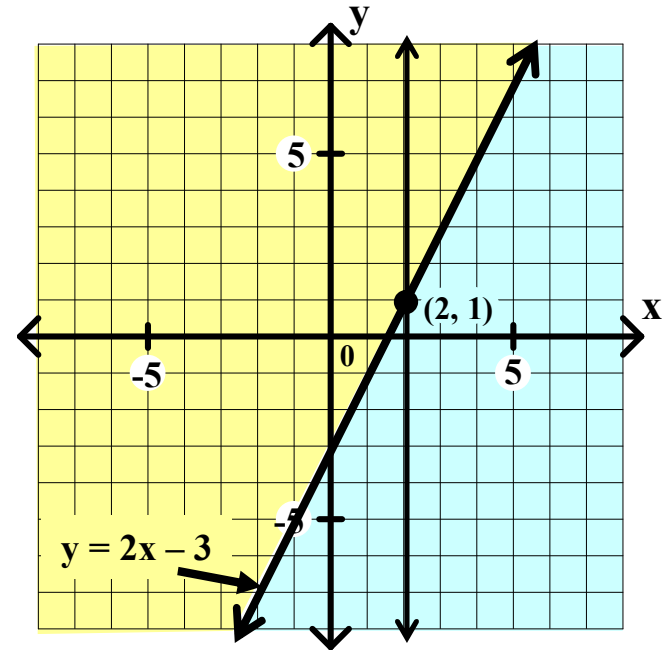
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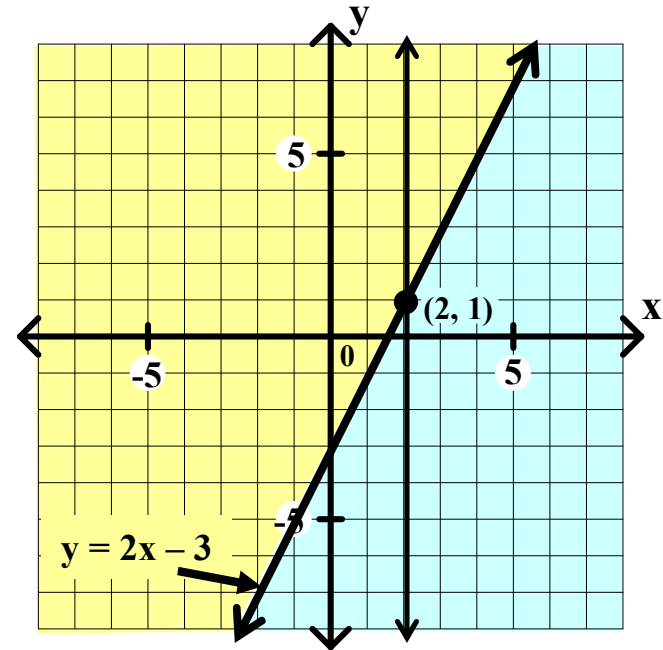
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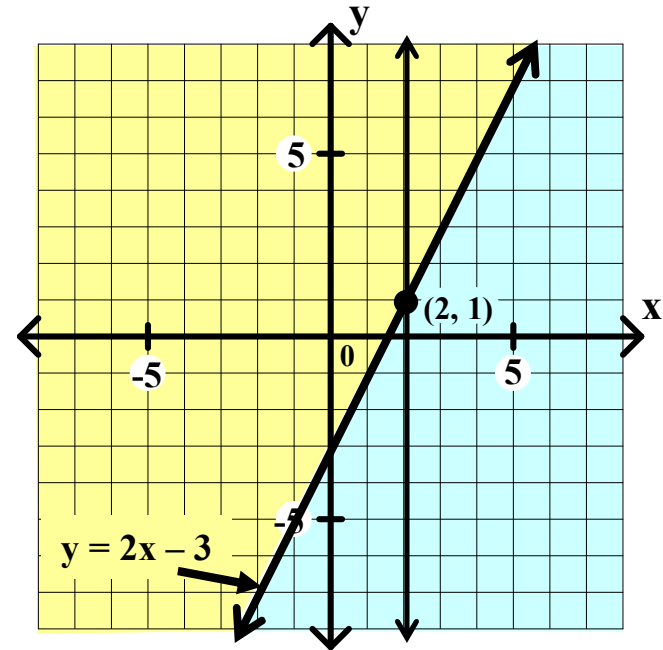
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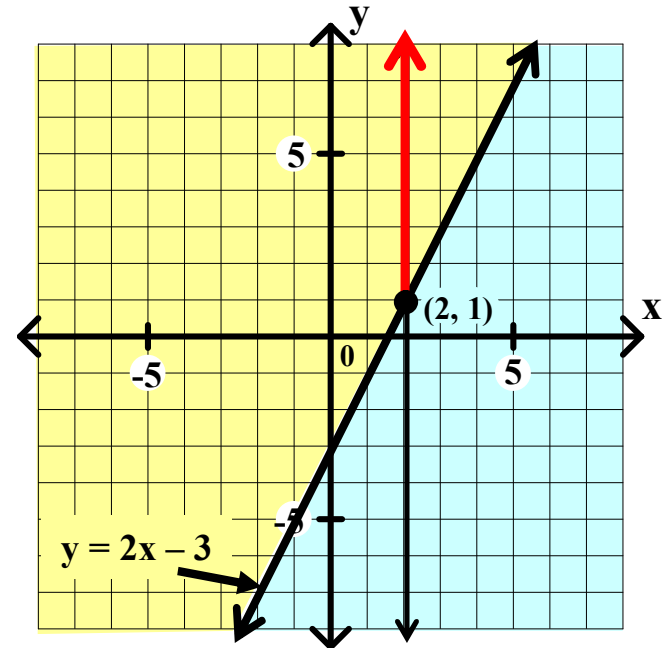
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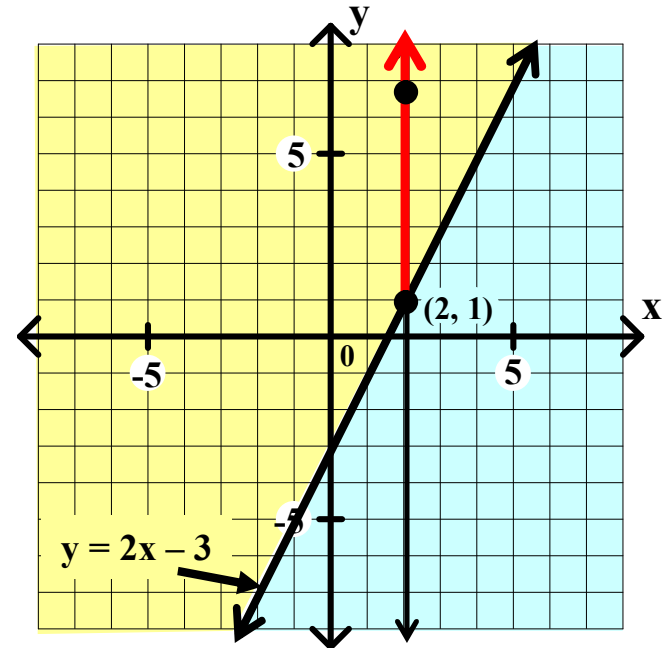
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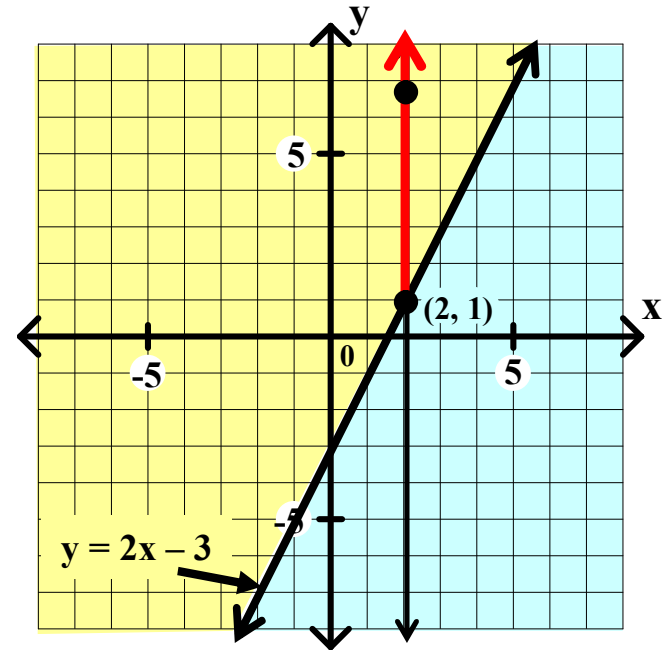
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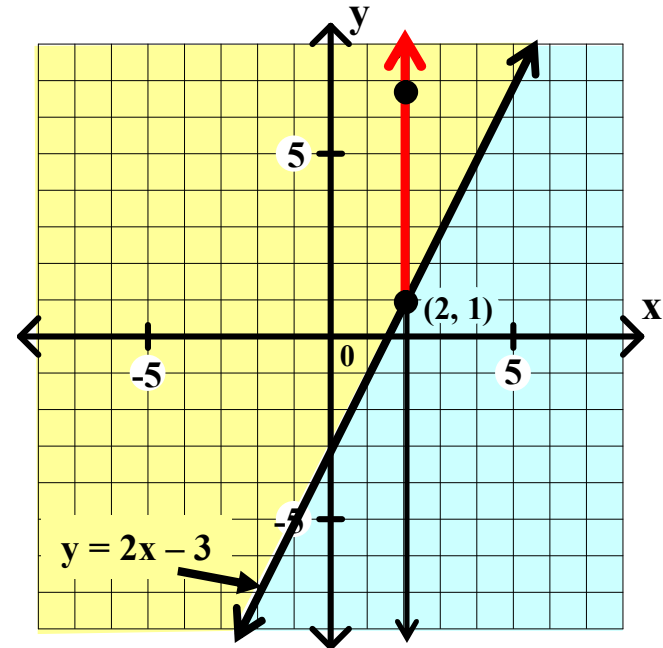
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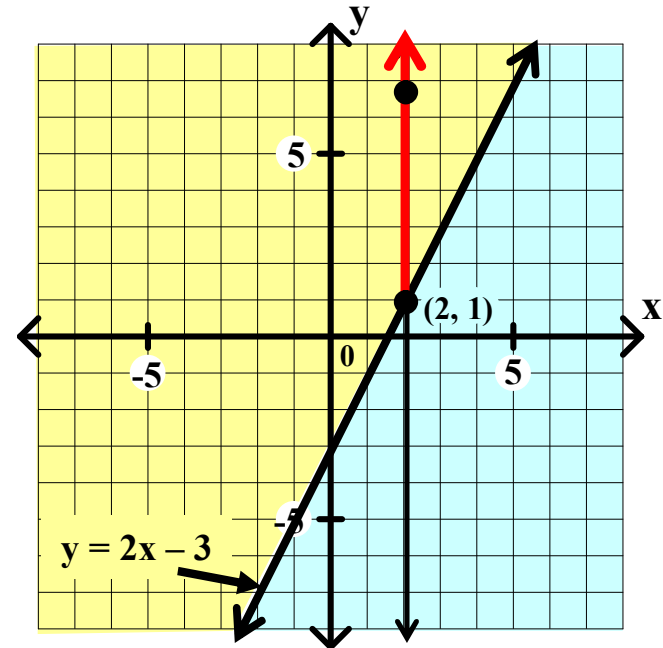
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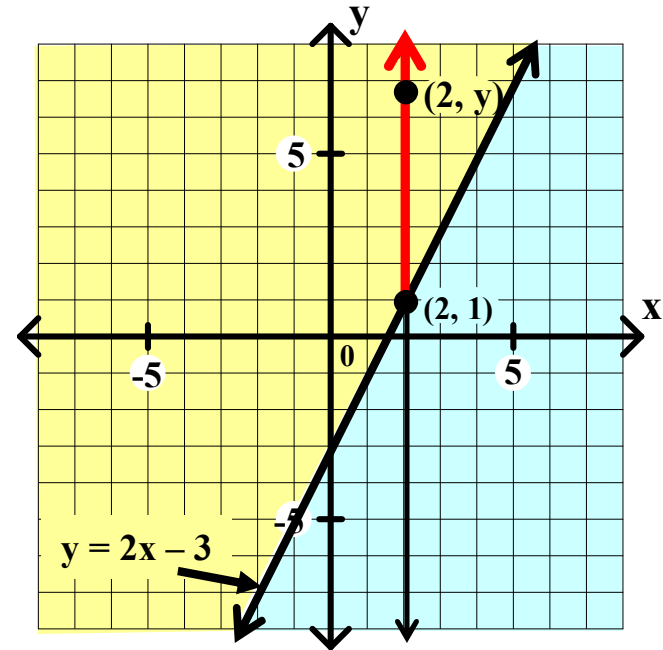
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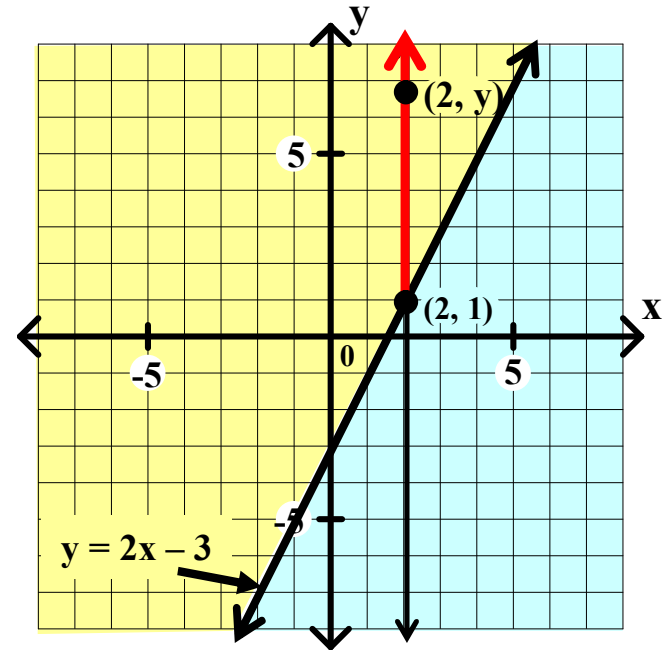
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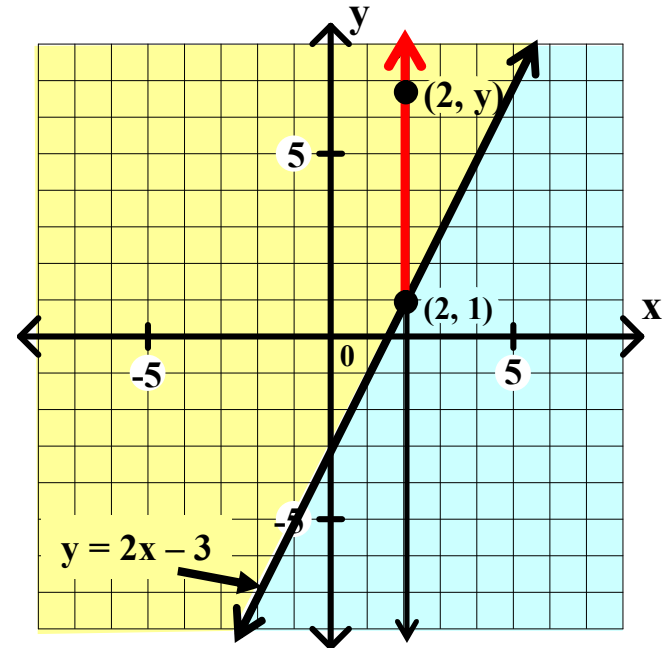
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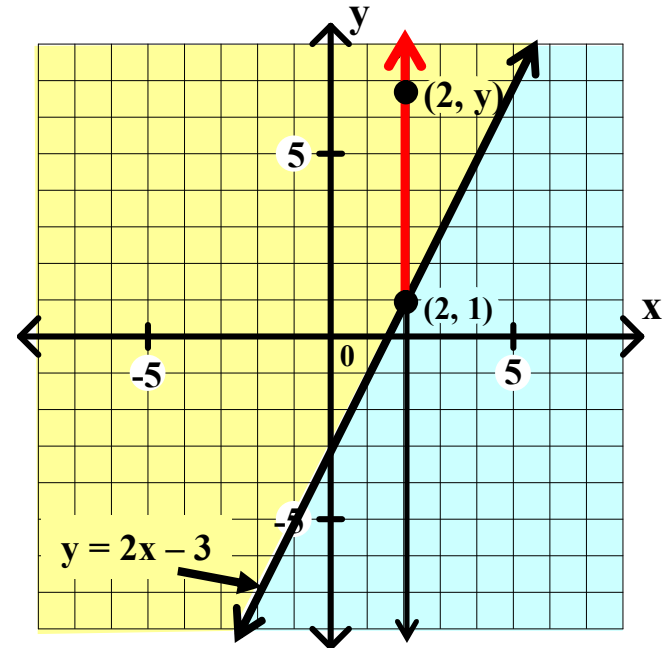
Therefore, the value of $2x - 3$ has not changed. However, the value of y has increased. Therefore, at any point **above** $(2, 1)$ on the line $x = 2$, $y > 2x - 3$!!

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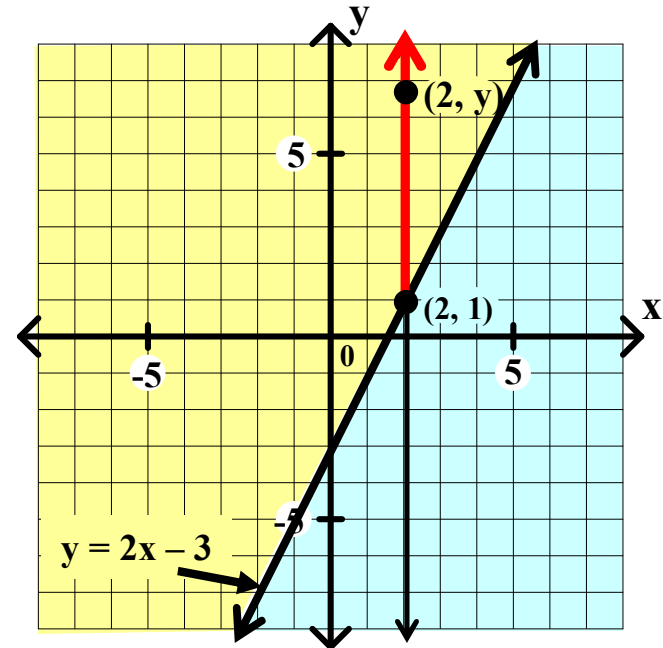
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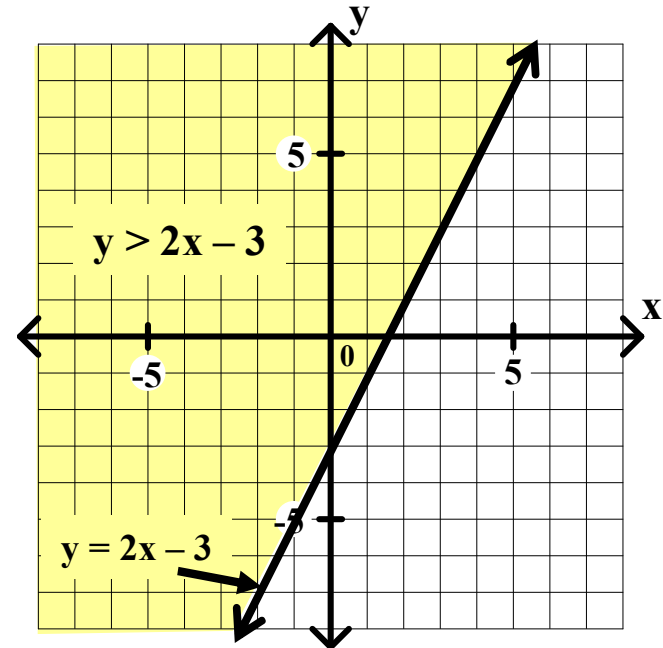
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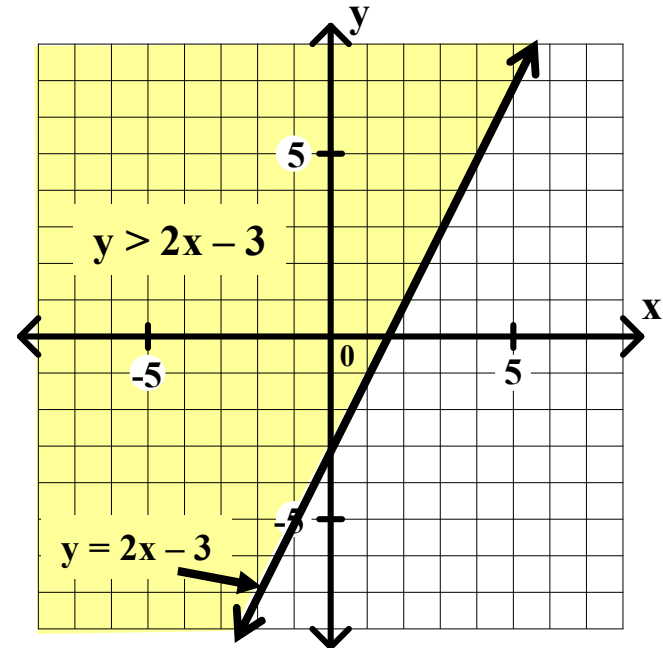
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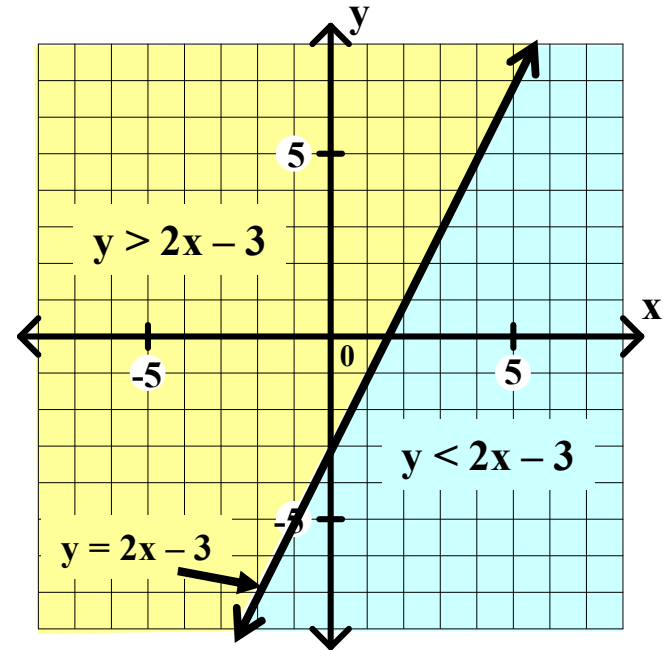
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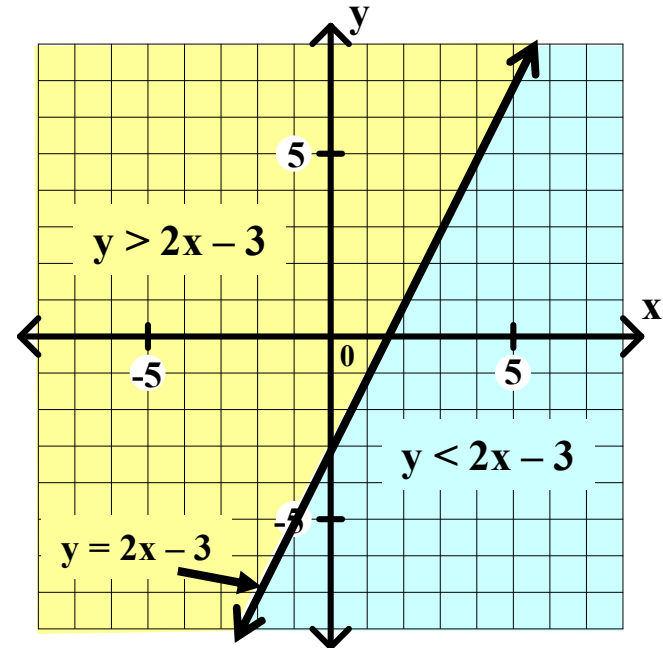
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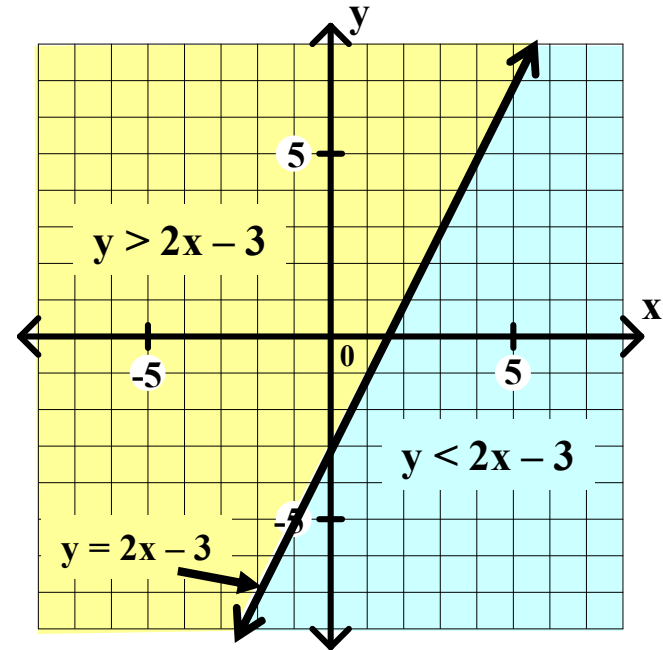
Consider the 4 inequalities below.

$$y > 2x - 3$$

$$y \geq 2x - 3$$

$$y < 2x - 3$$

$$y \leq 2x - 3$$

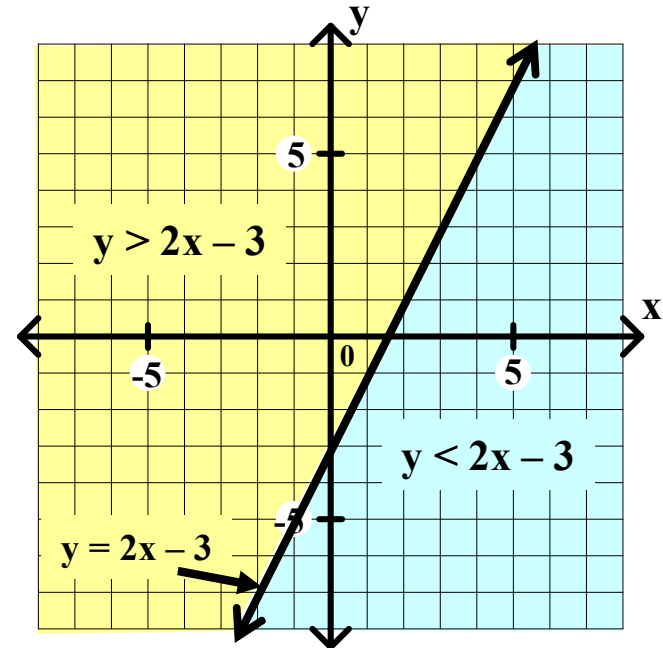


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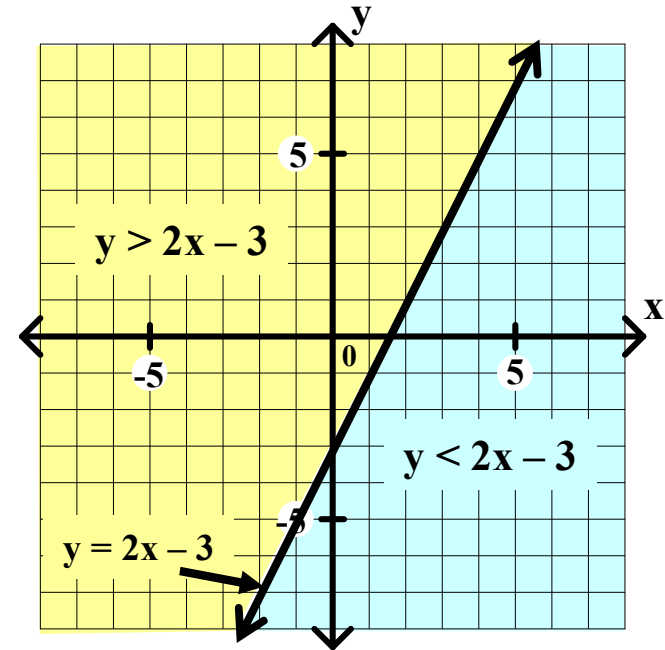
These inequalities involve the points above the line $y = 2x - 3$.

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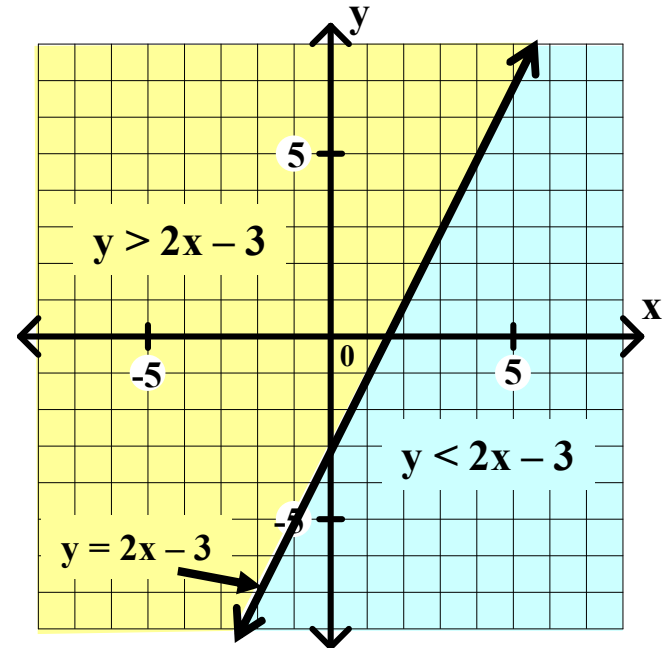
$y > 2x - 3$ does not include the points on the line.

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These inequalities involve the points above the line $y = 2x - 3$.

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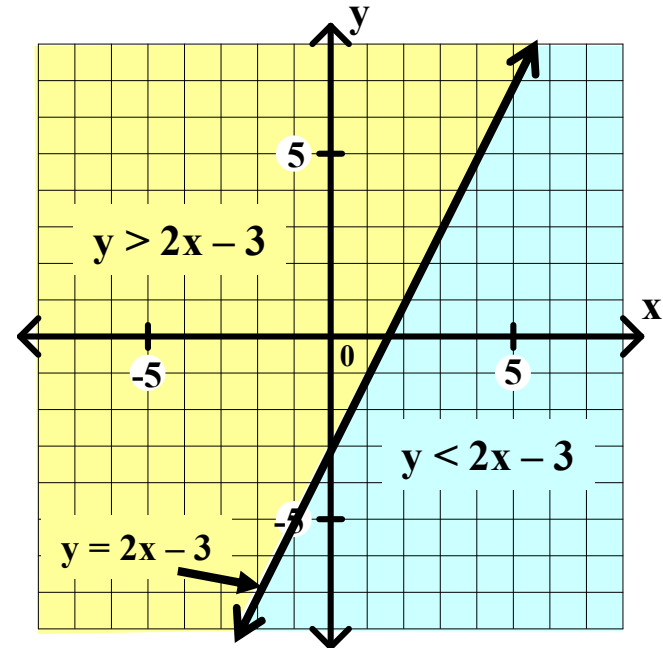
$y \geq 2x - 3$ does include the points on the line.

Algebra I Unit 7 Linear Inequalities With 2 Variables

Consider the equation $y = 2x - 3$.

The graph of this equation divides the plane into 3 distinct sets of points.

- (a) the points on the line
- (b) the points \neq above \emptyset the line
- (c) the points \neq below \emptyset the line



Consider the 4 inequalities below.

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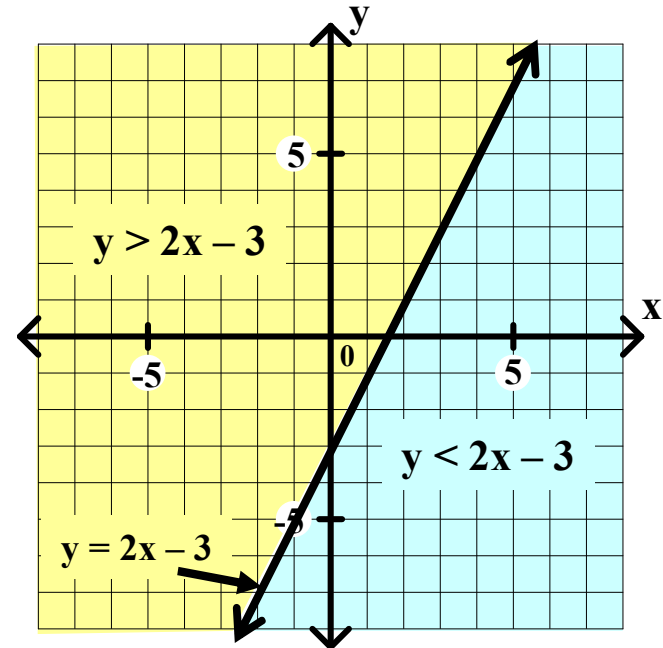
These inequalities involve the points below the line $y = 2x - 3$.

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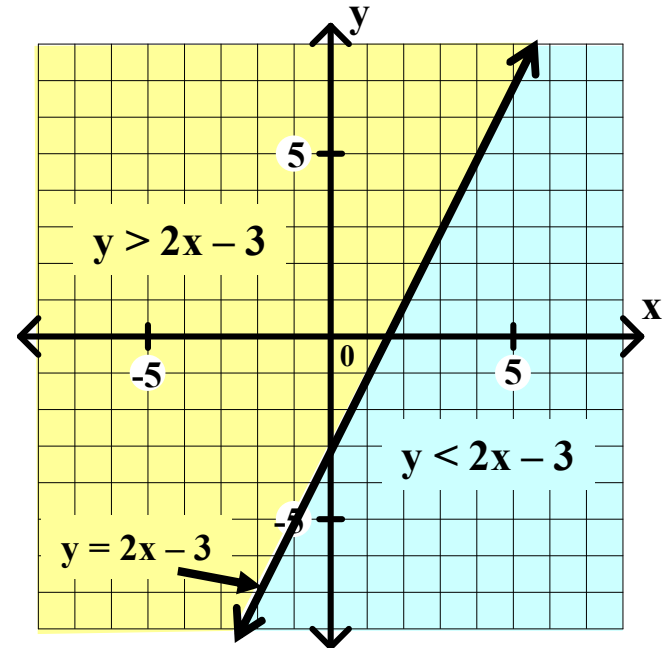
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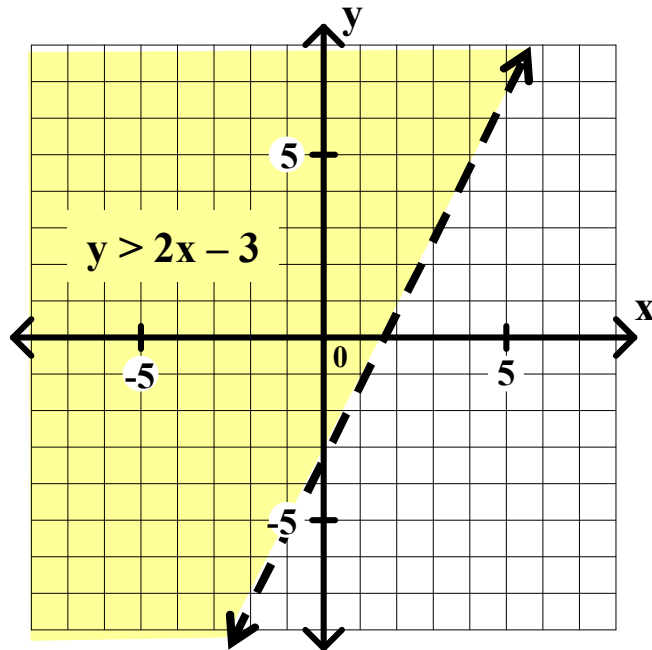
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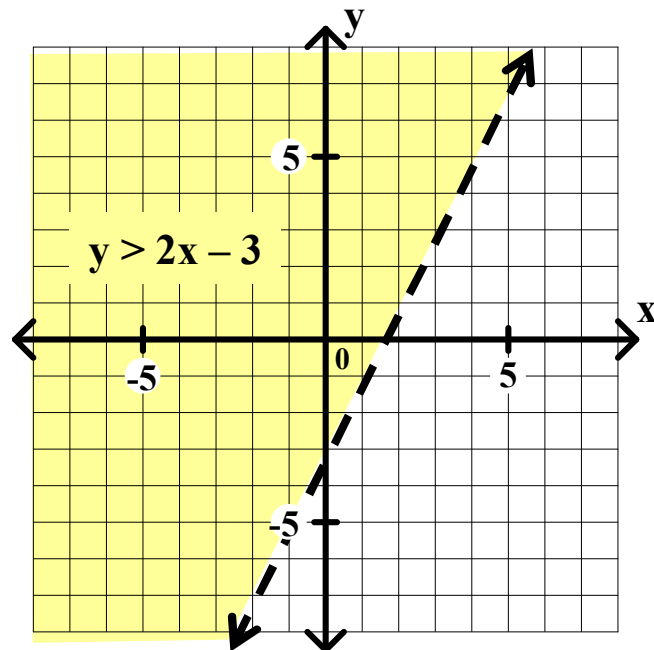
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Consider these graphs.



The dashed line indicates the points on the line **are not** included in the graph.

Algebra I Unit 7 Linear Inequalities With 2 Variables

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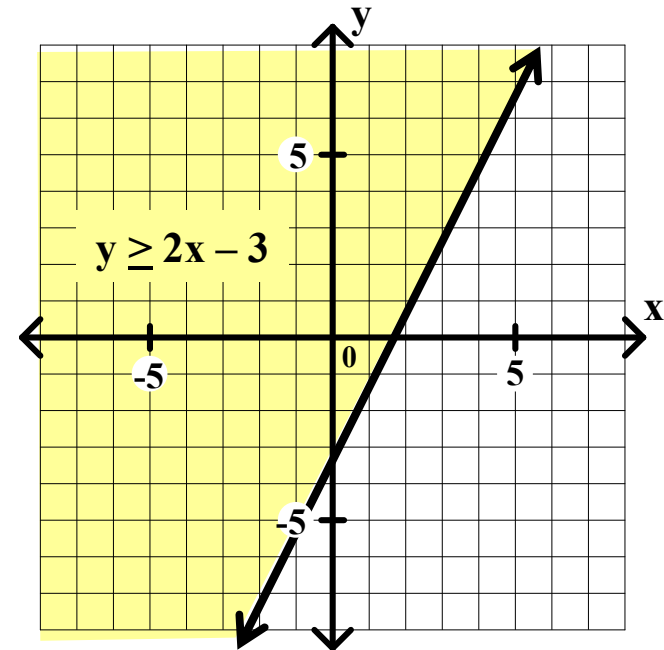
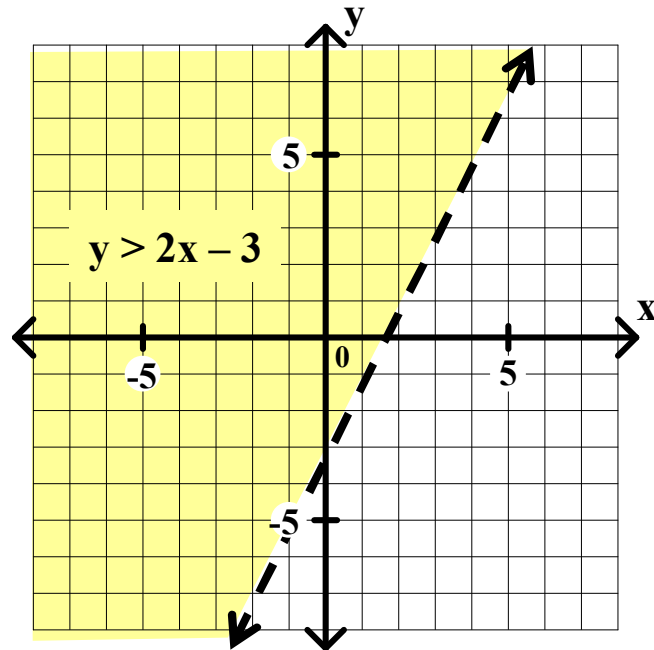
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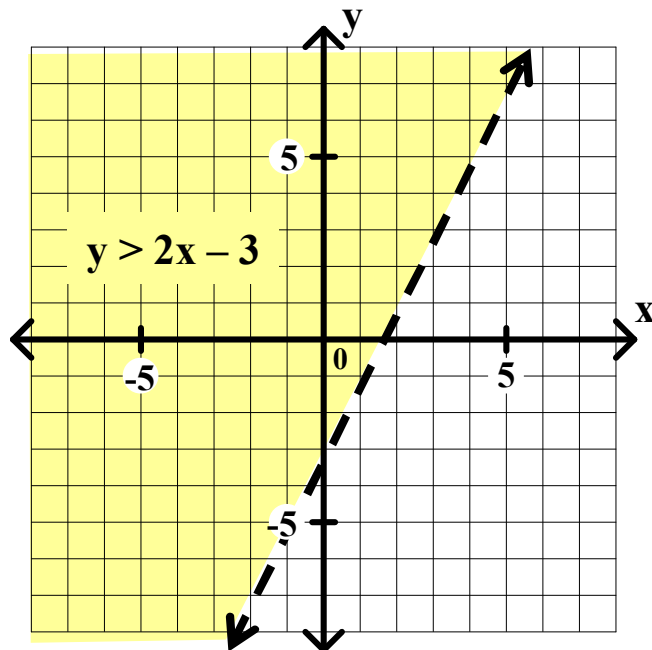
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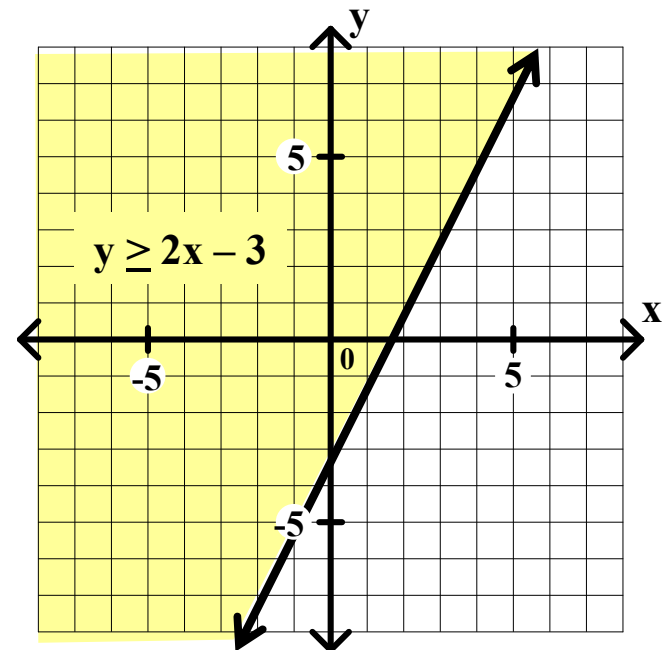
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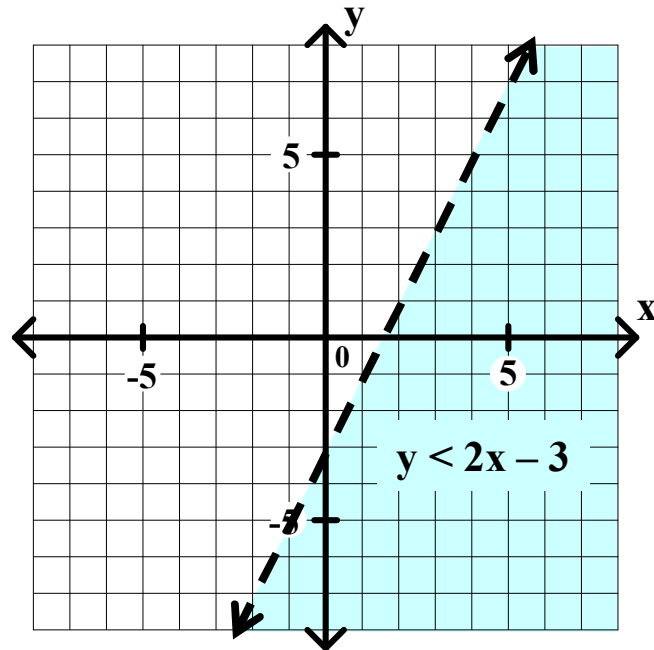
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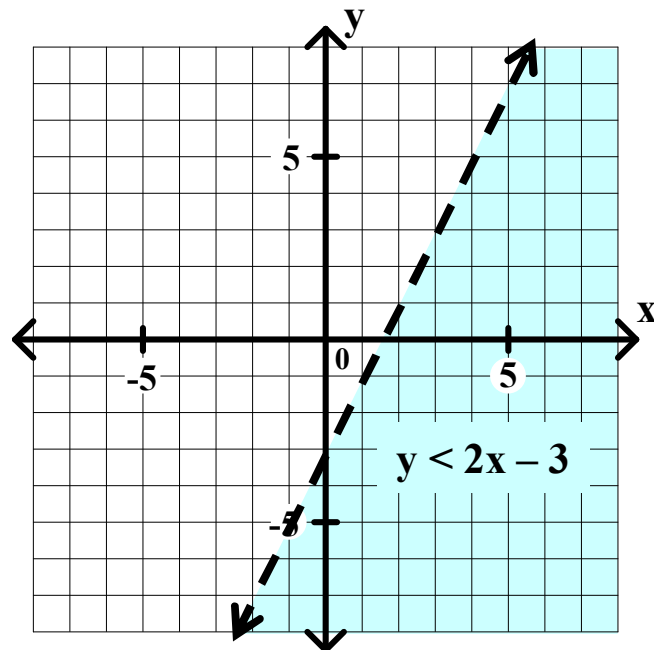
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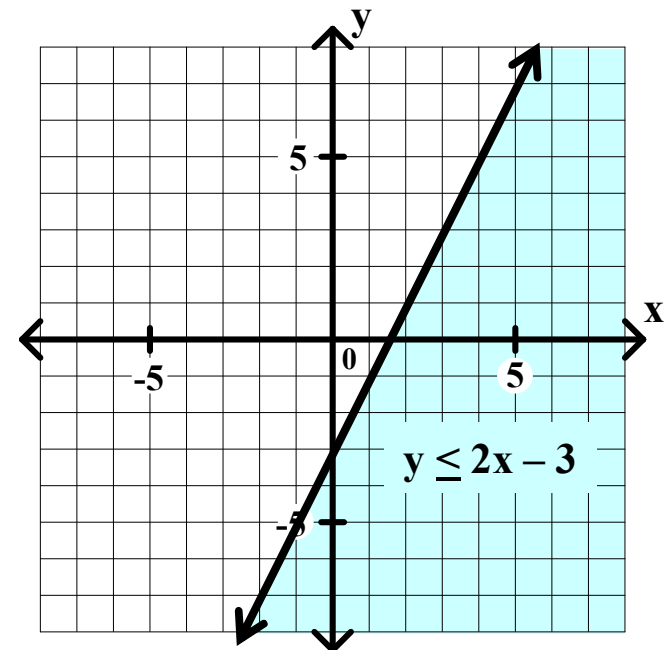
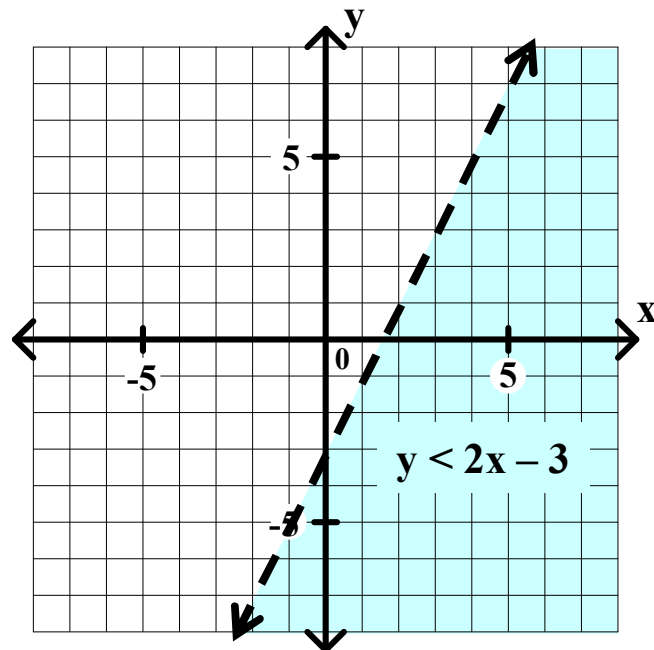
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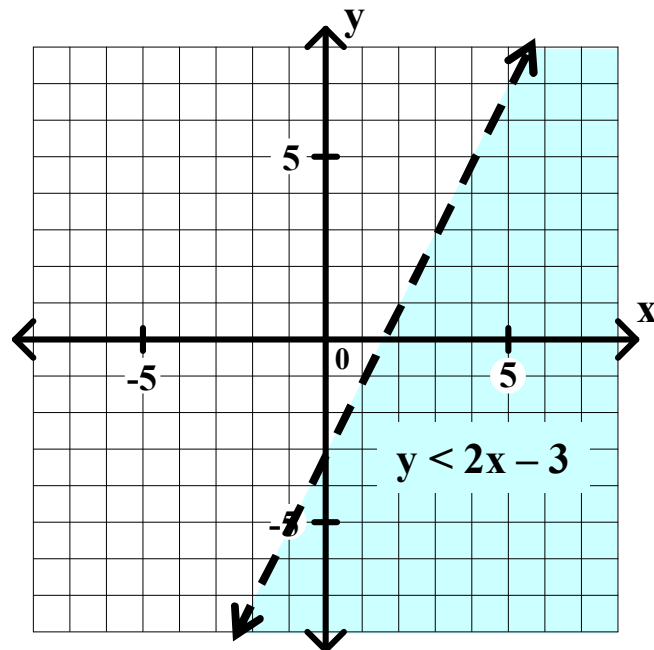
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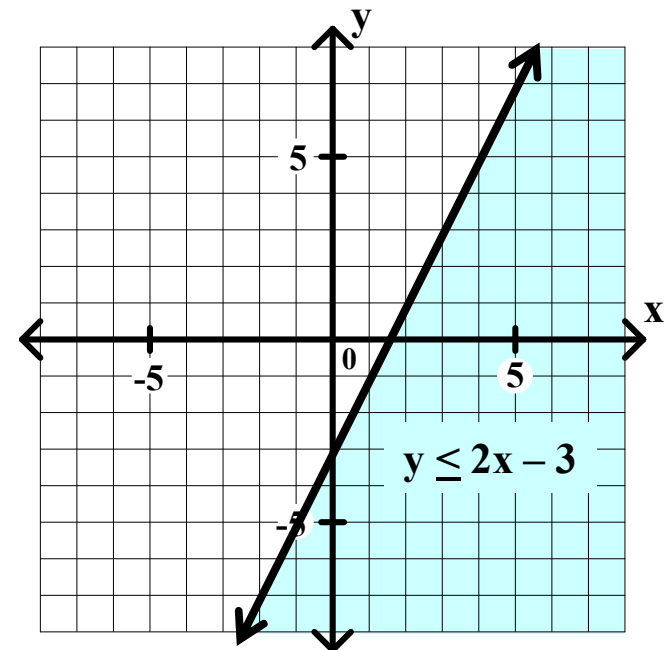
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Algebra I Unit 7 Linear Inequalities With 2 Variables

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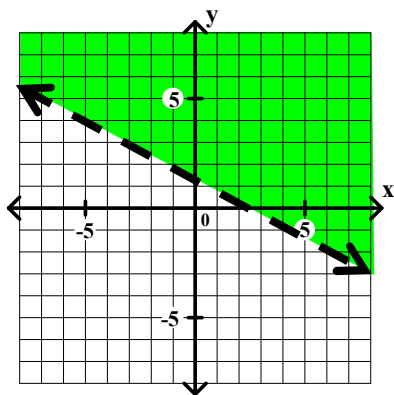
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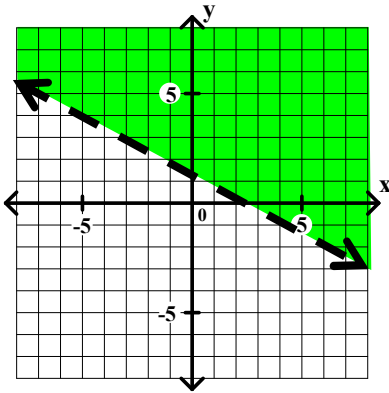


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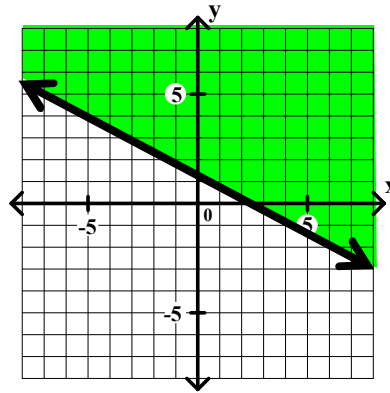
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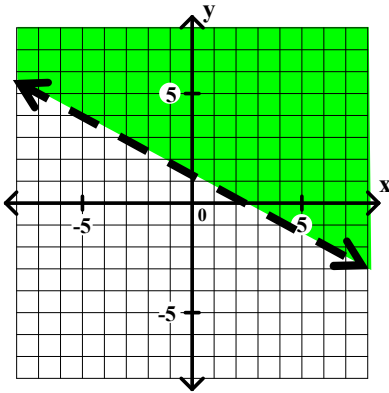
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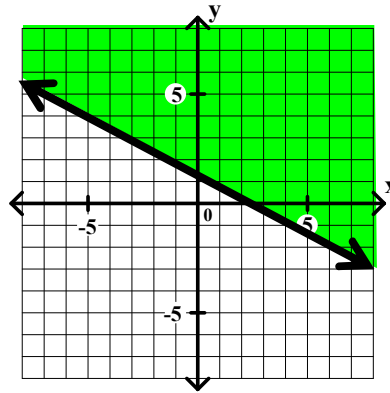
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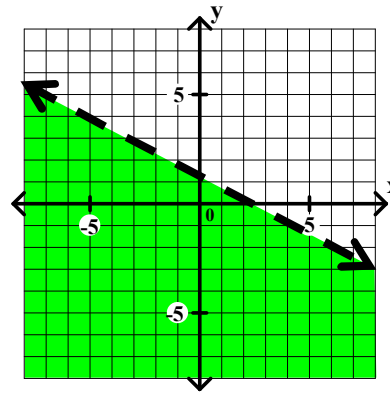
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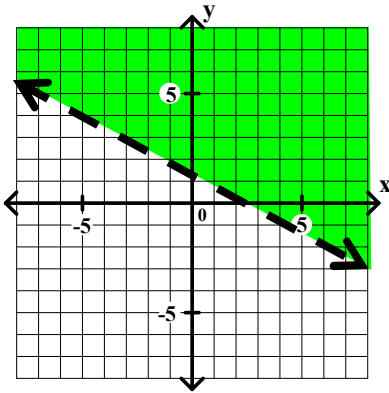
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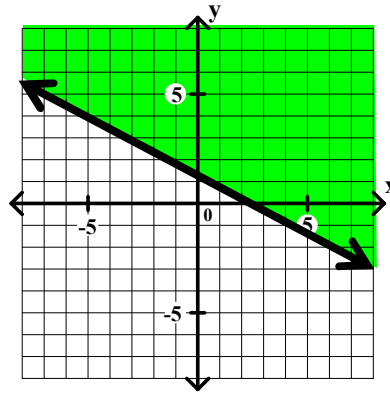
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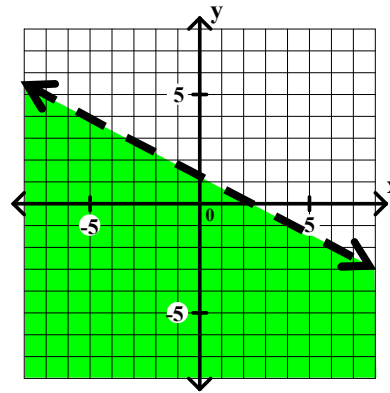
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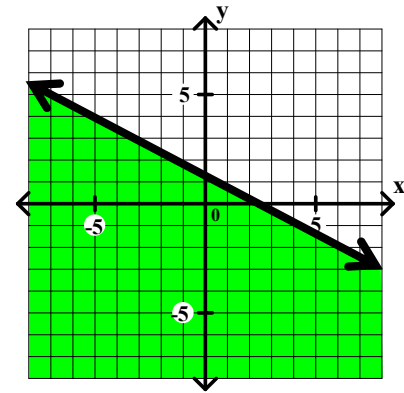
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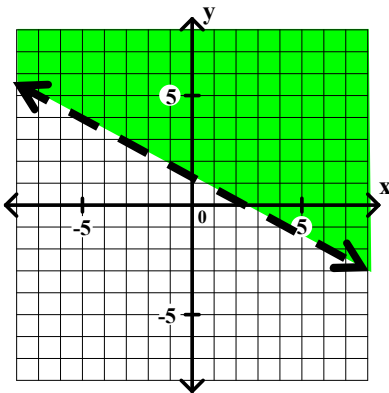


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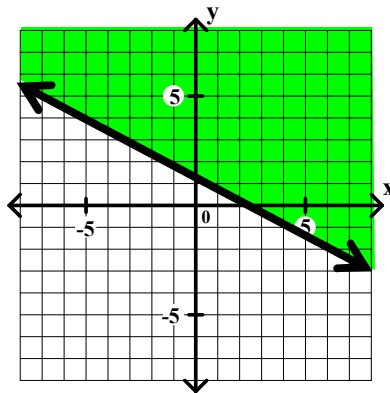
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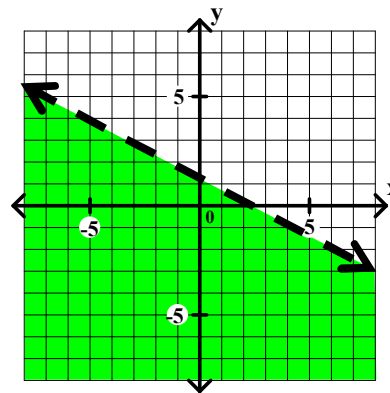
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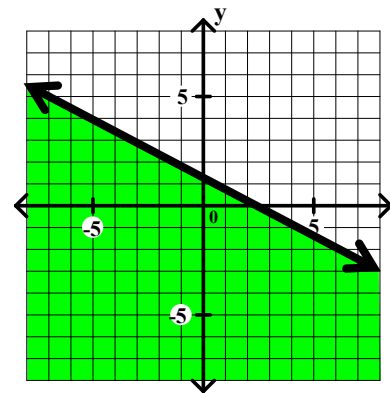
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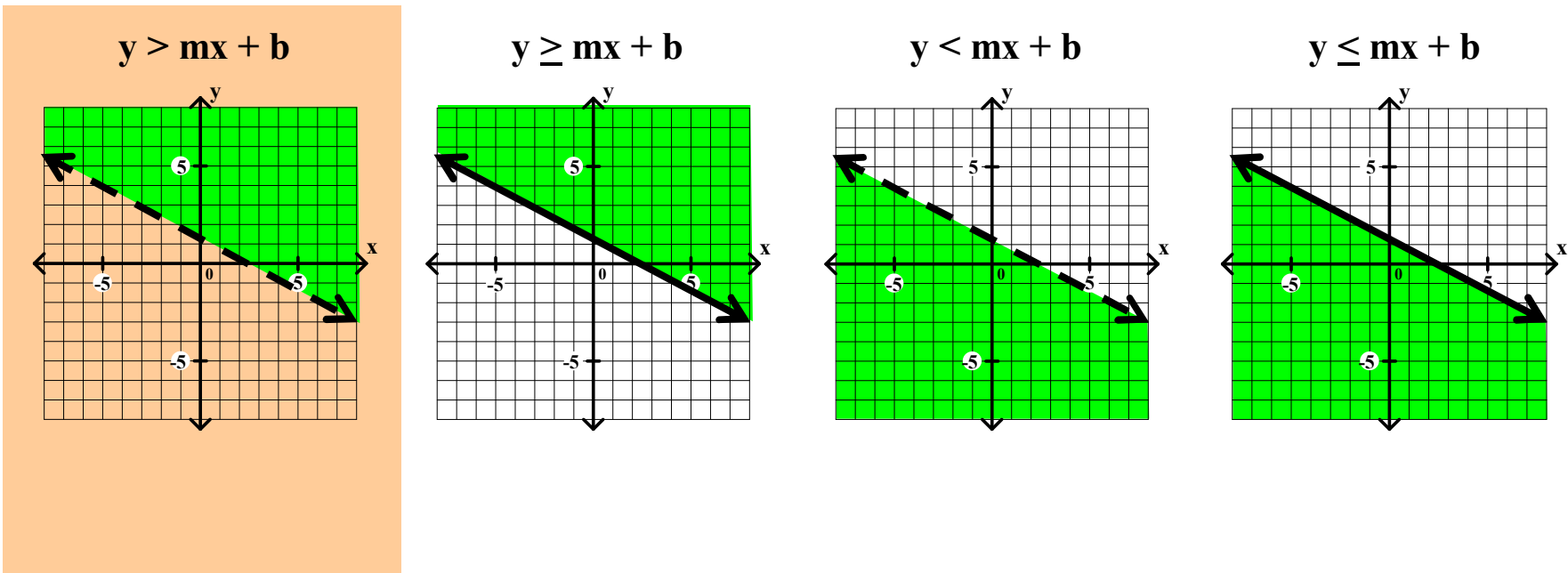
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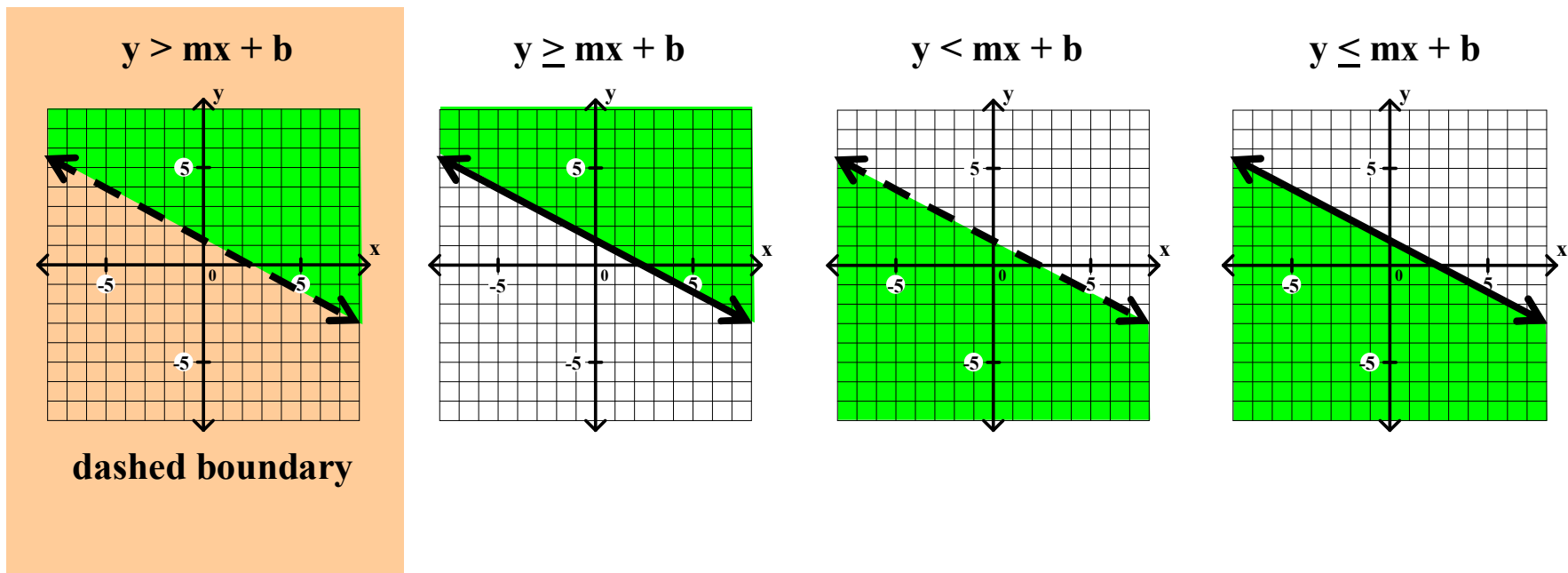
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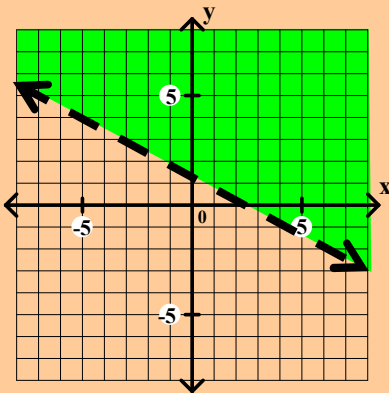


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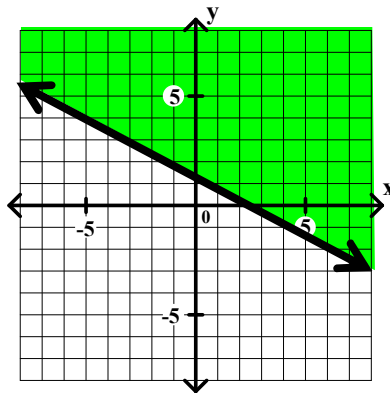
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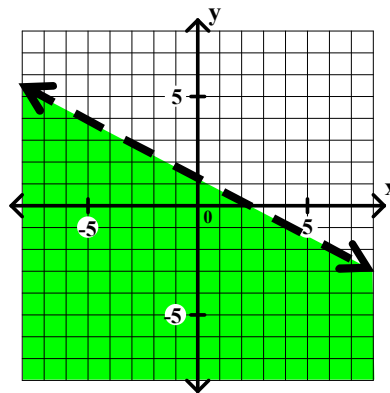
dashed boundary

Shade above the line.

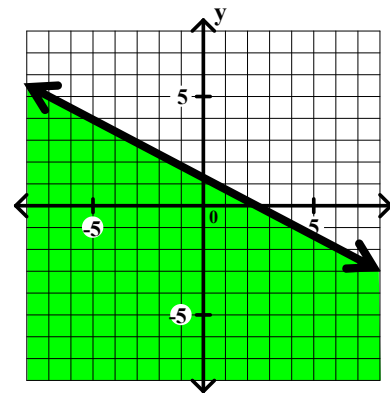
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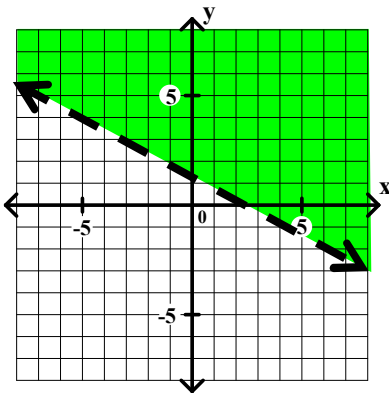


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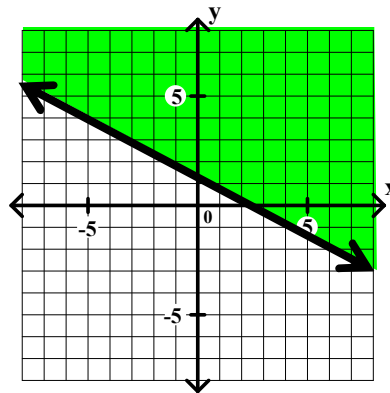
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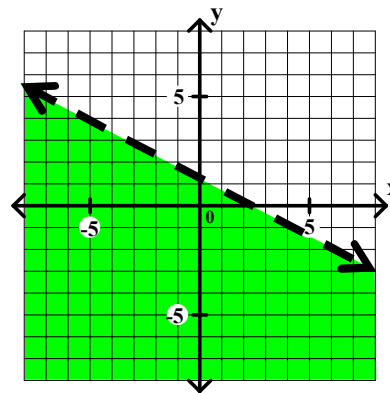
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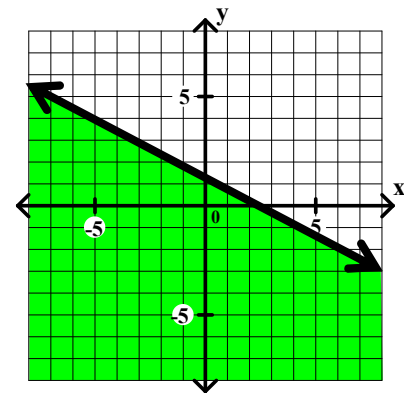
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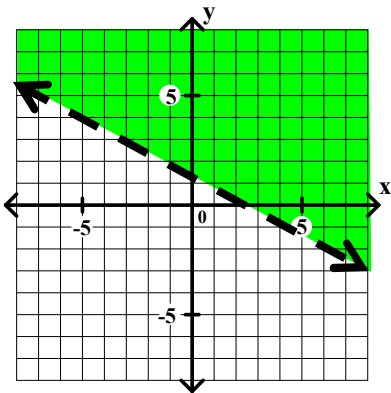
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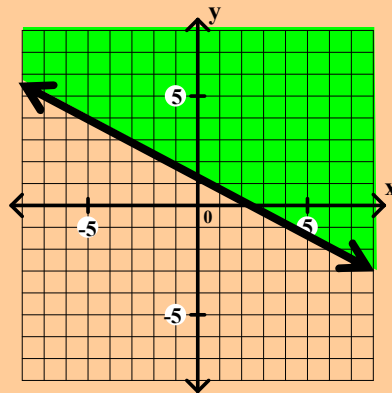
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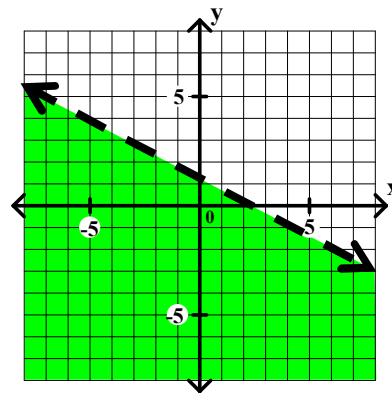
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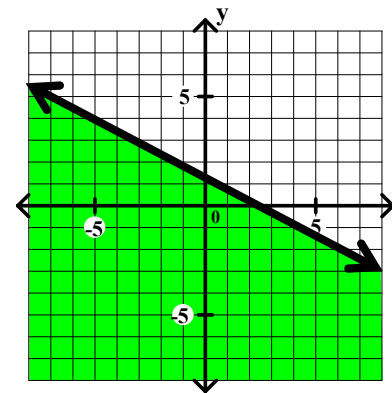
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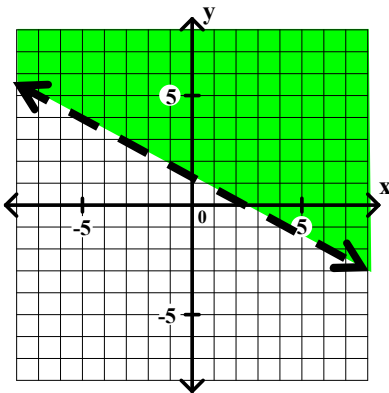


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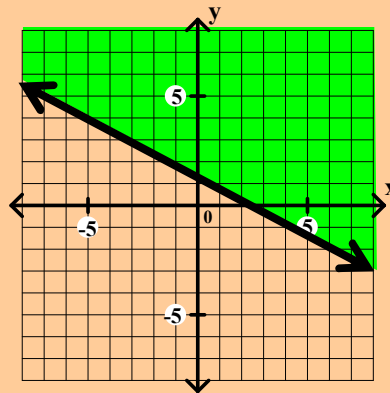
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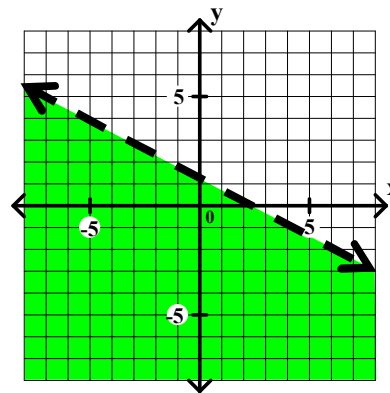
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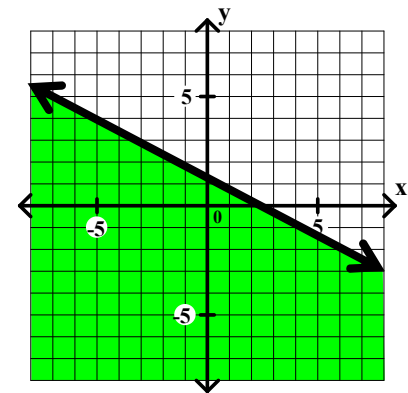


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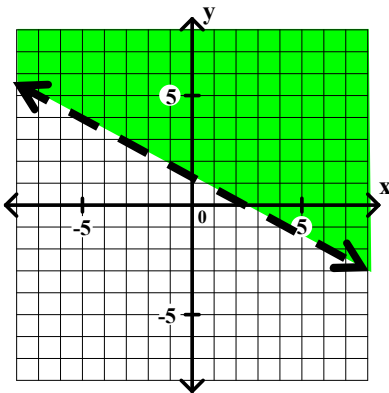


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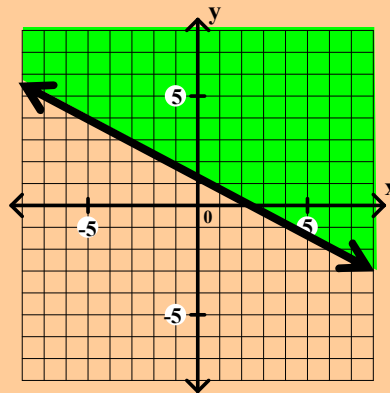
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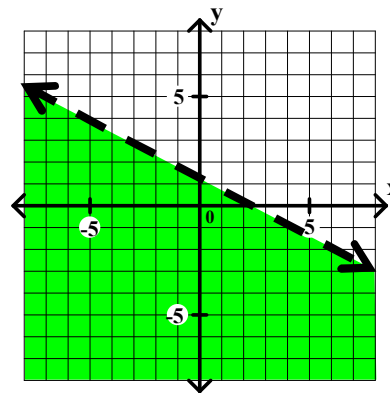
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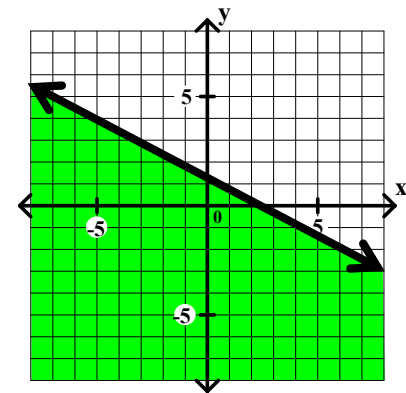
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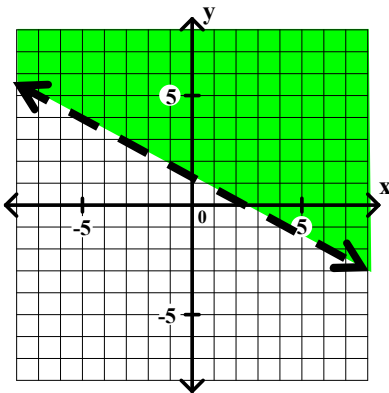


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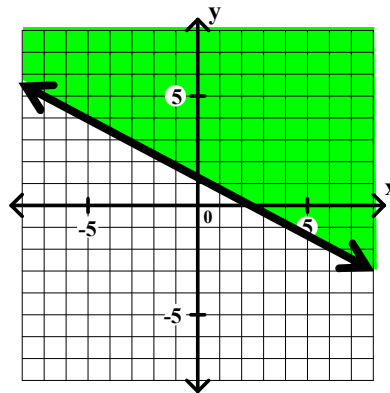
$$y > mx + b$$



dashed boundary

Shade above the line.

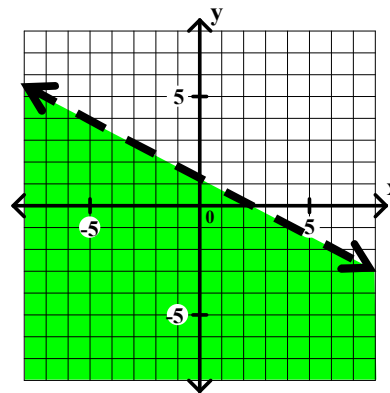
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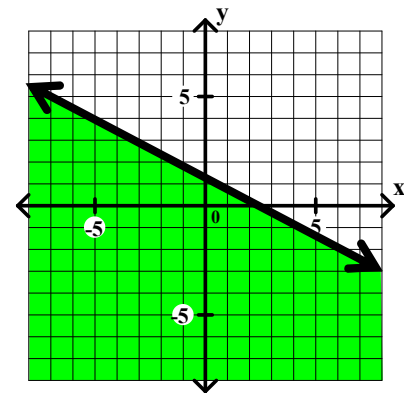
solid boundary

Shade above the line.

$$y < mx + b$$



$$y \leq mx + b$$

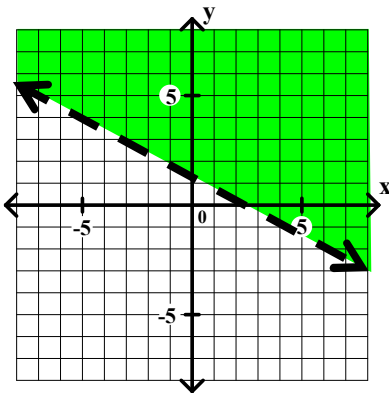


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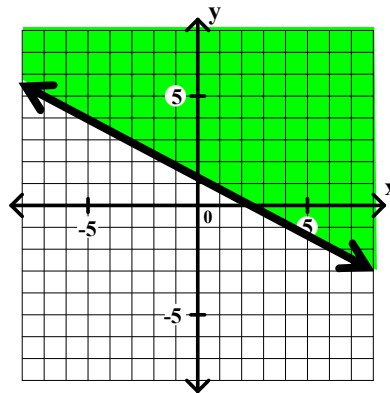
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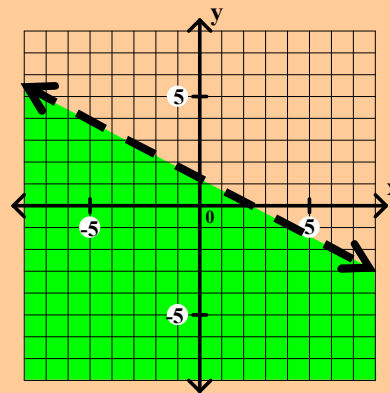
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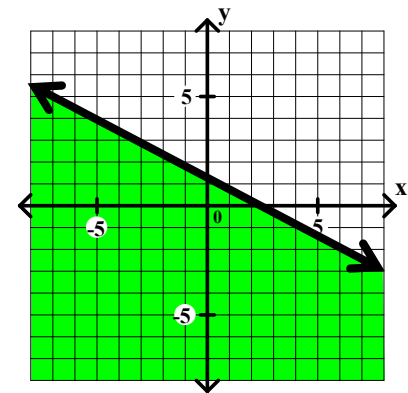
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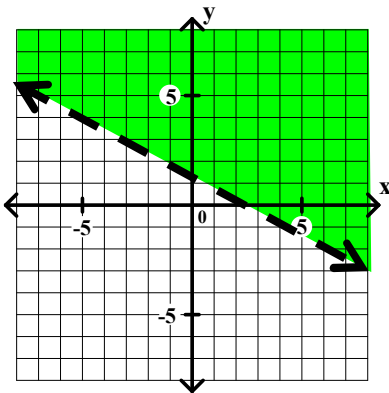


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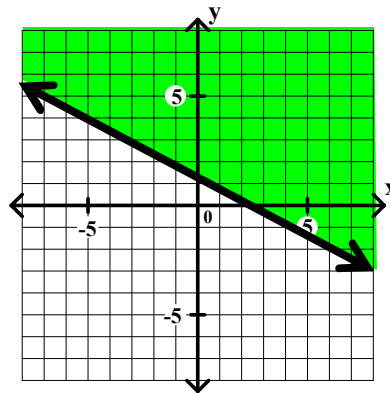
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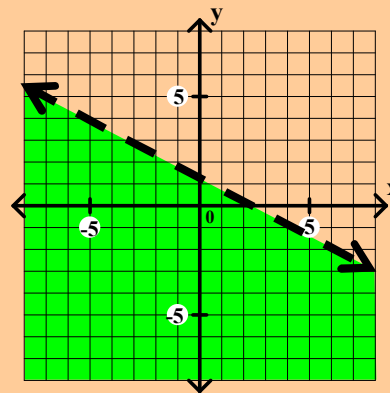
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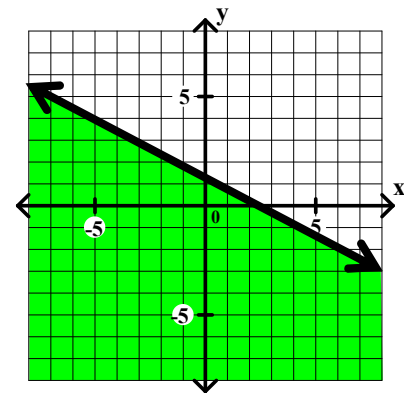
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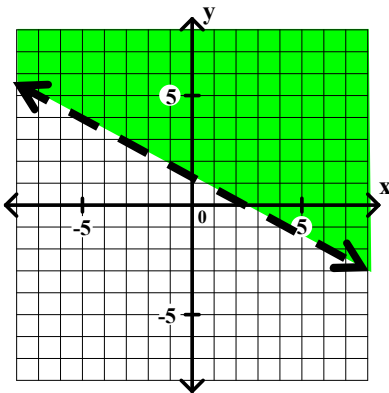


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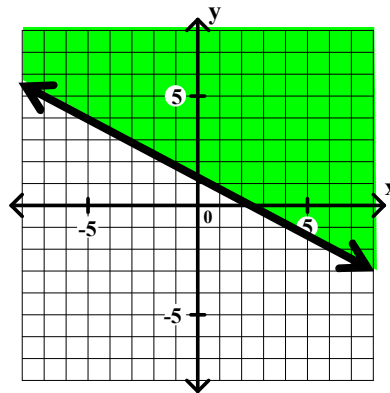
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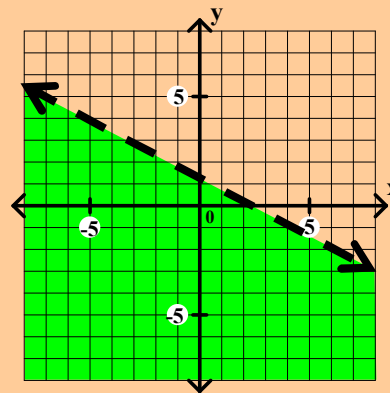
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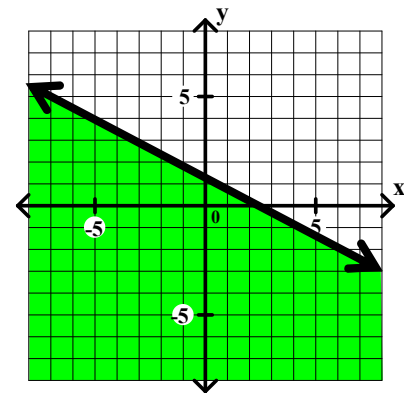
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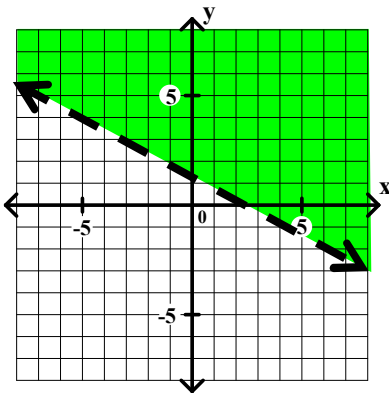


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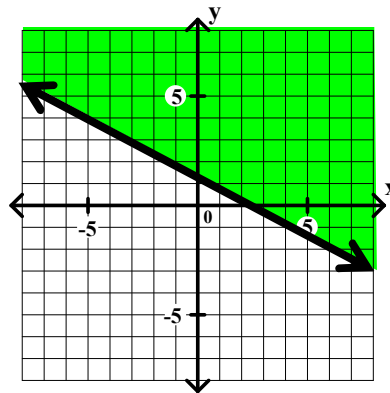
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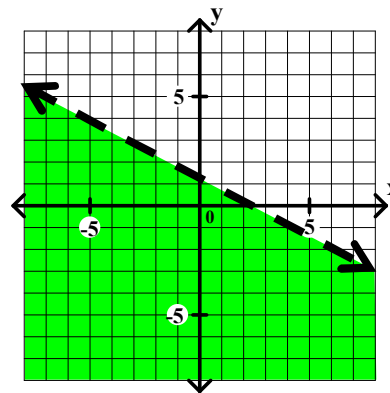
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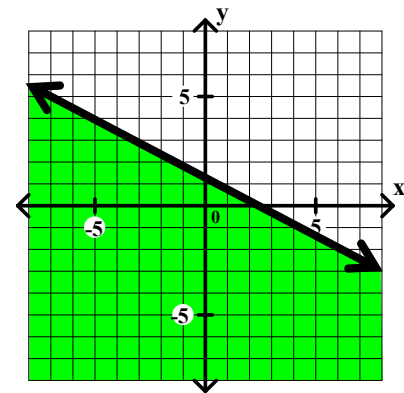
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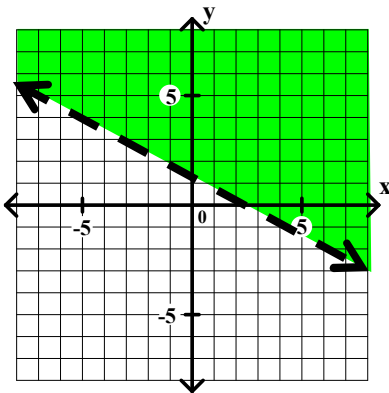


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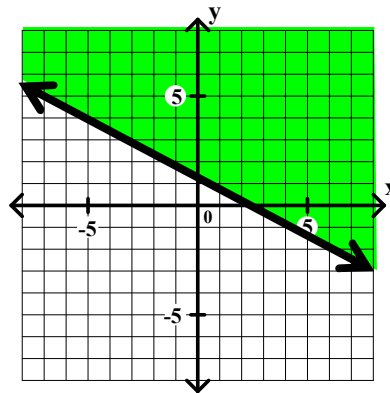
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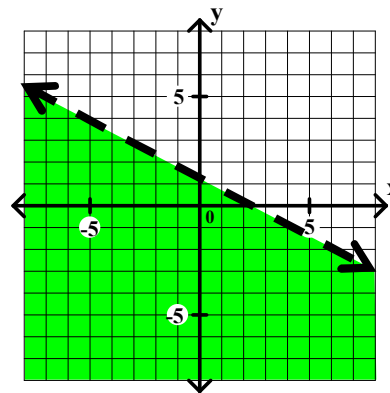
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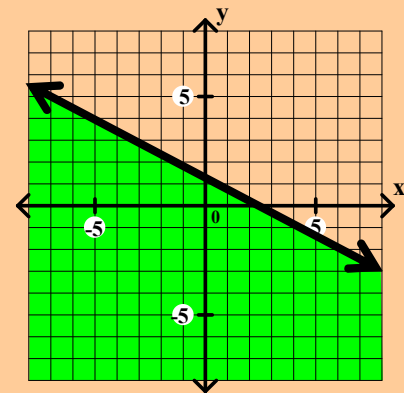
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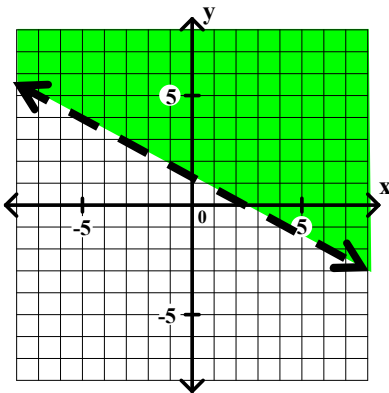


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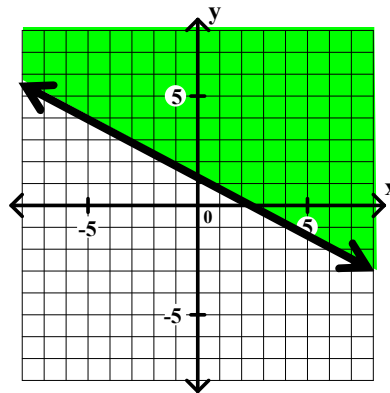
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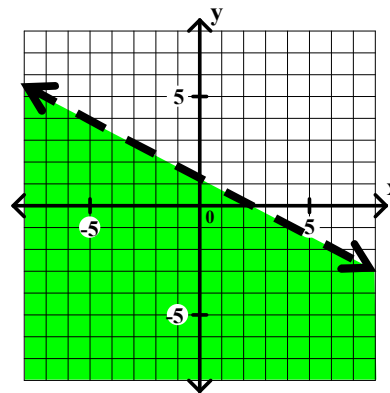
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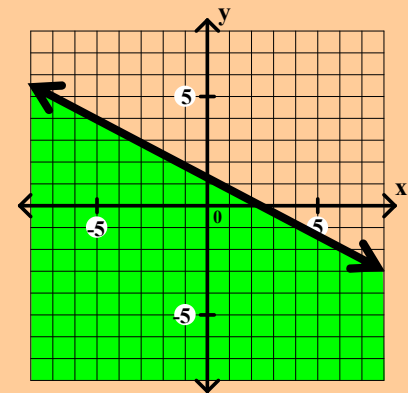
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dashed boundary

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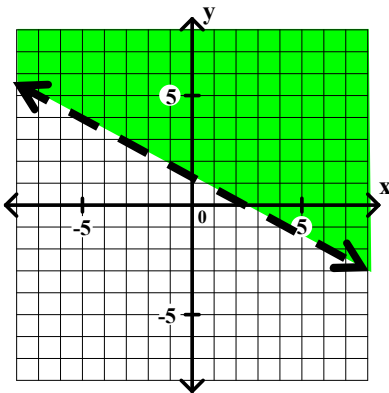
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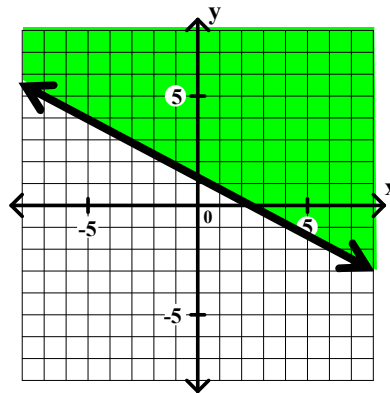
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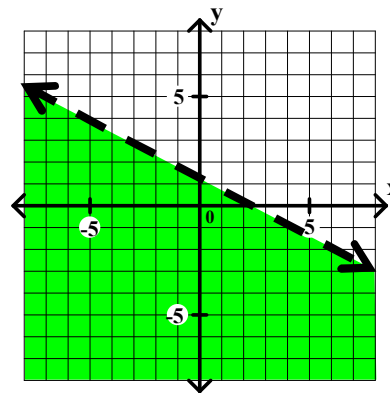
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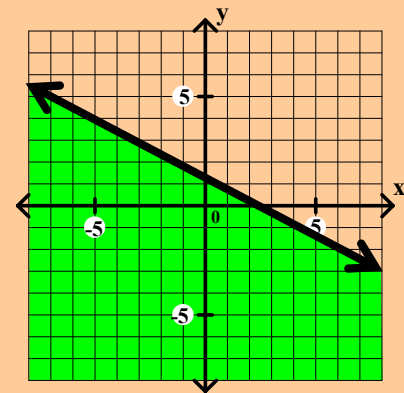
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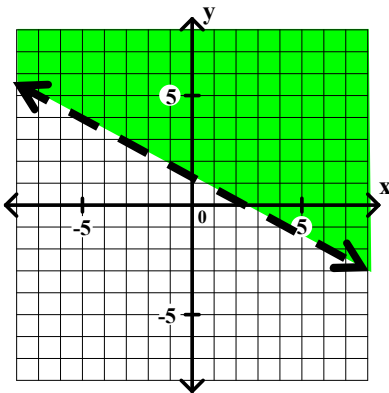
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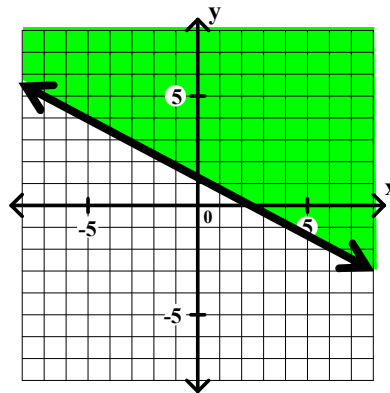
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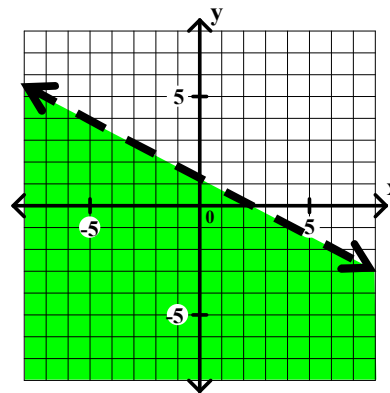
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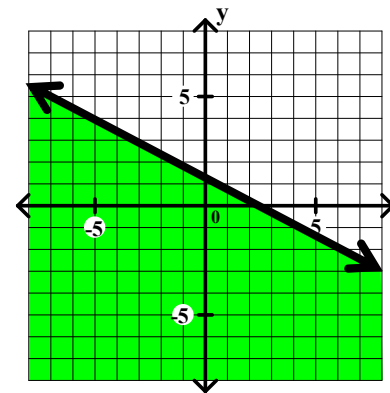
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Algebra I Unit 7 Linear Inequalities With 2 Variables

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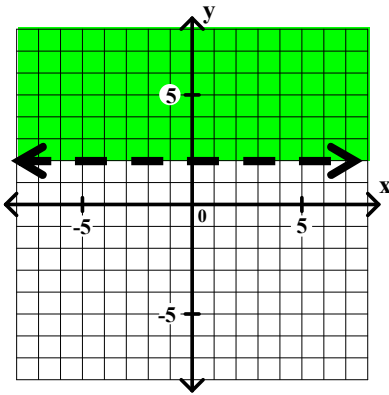
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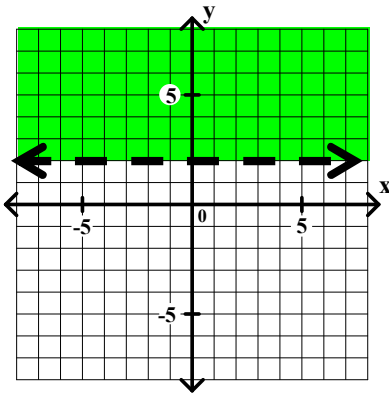


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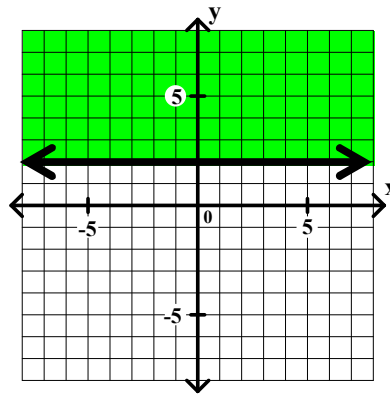
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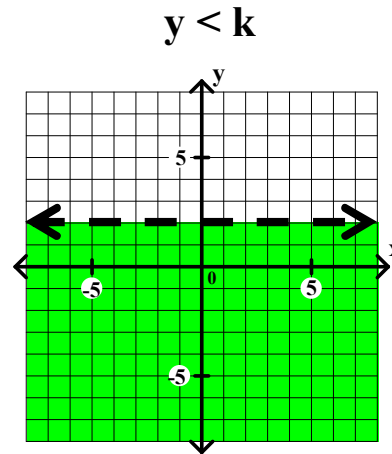
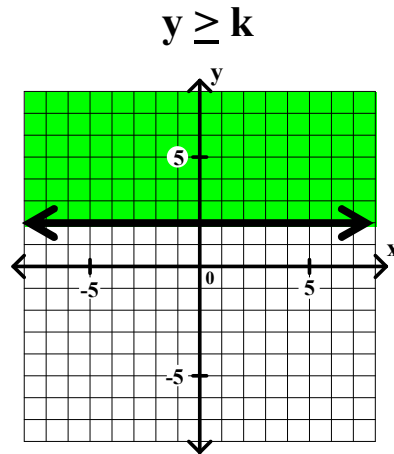
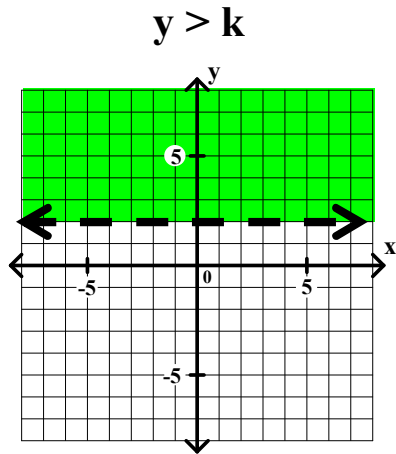
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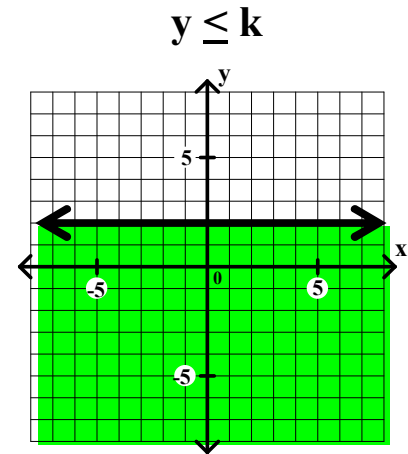
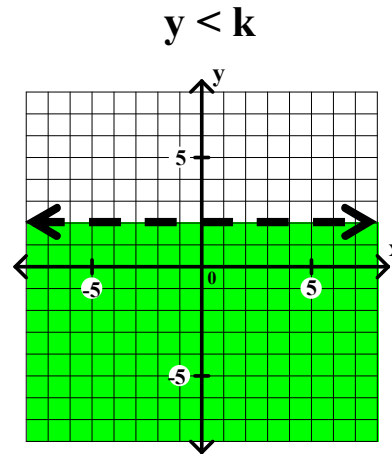
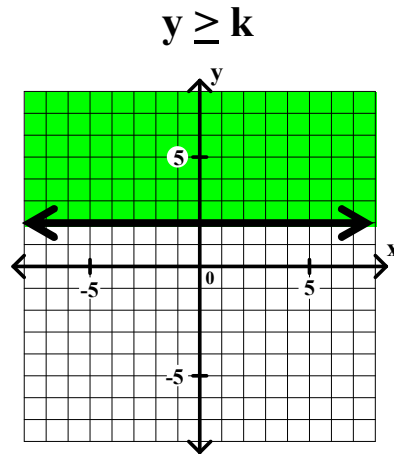
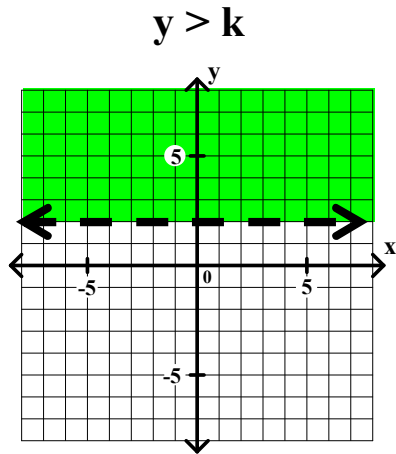


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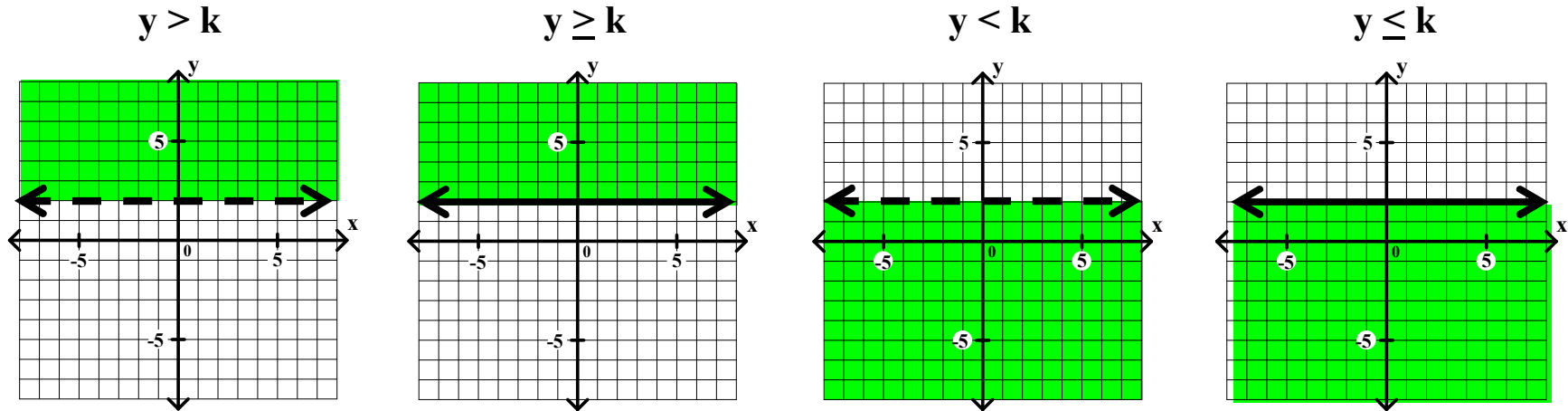
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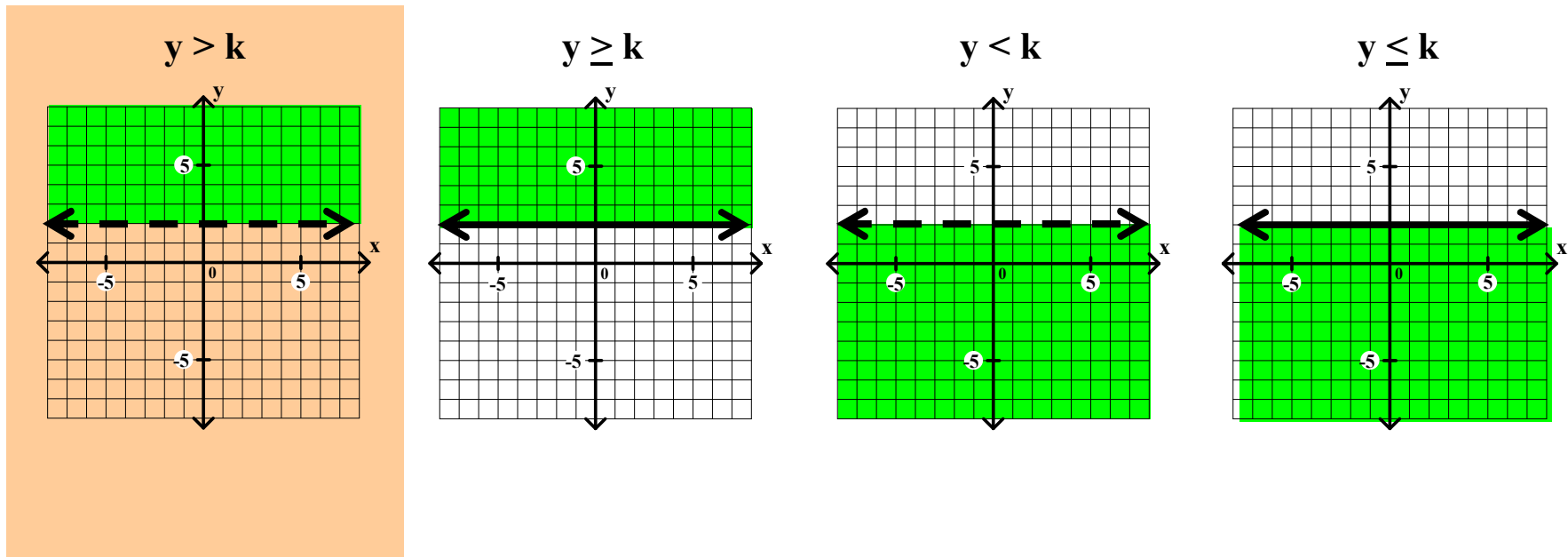
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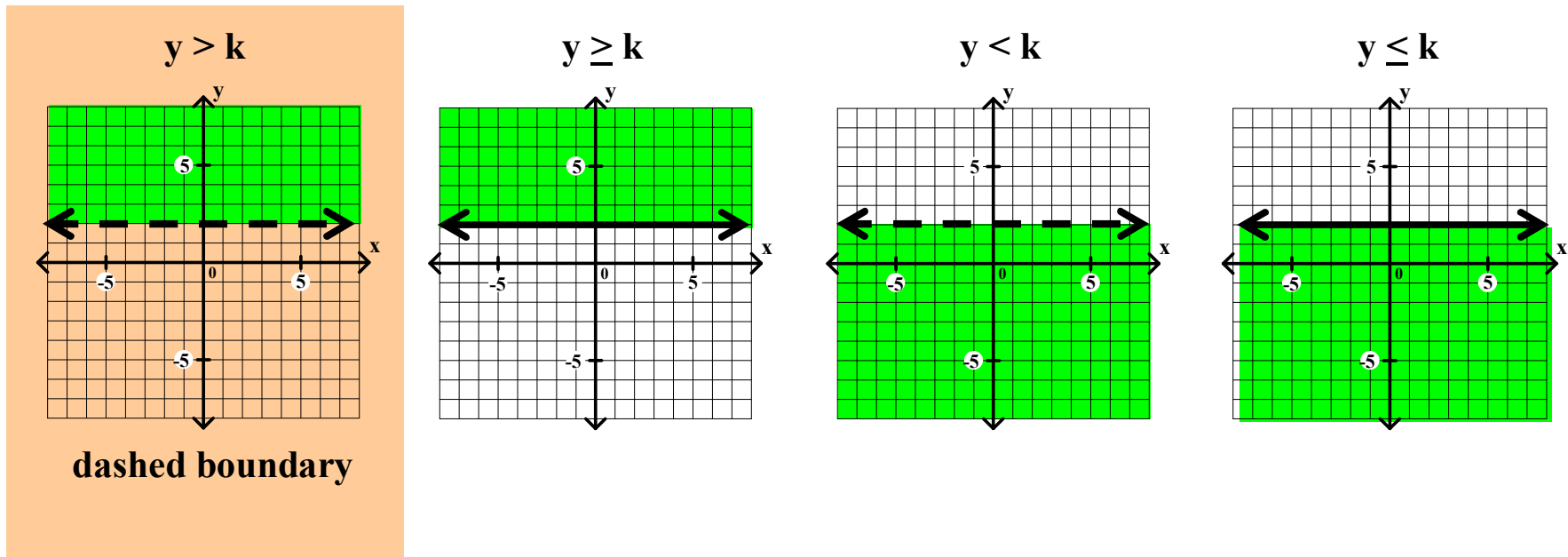
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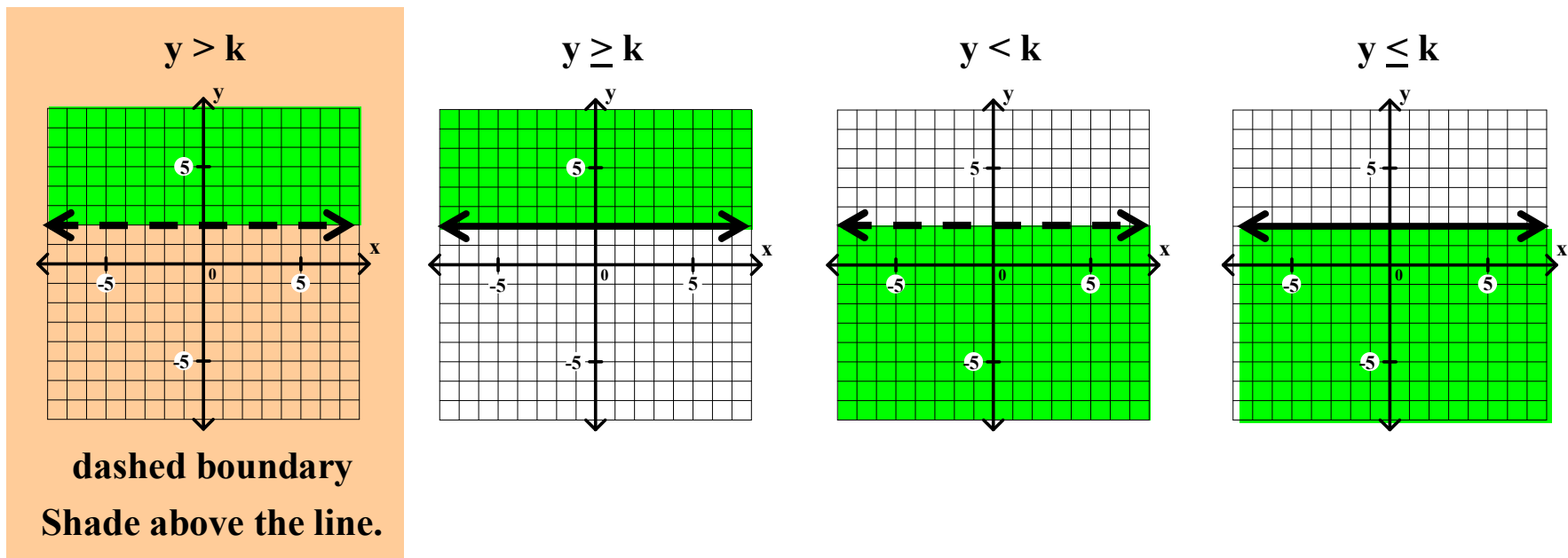
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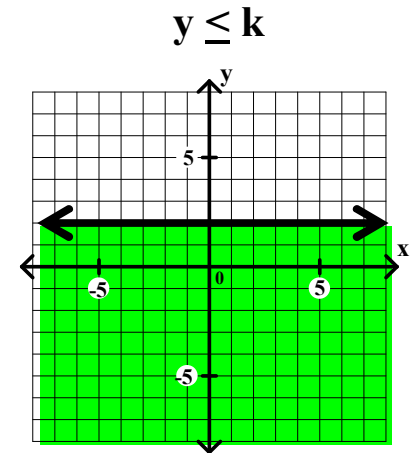
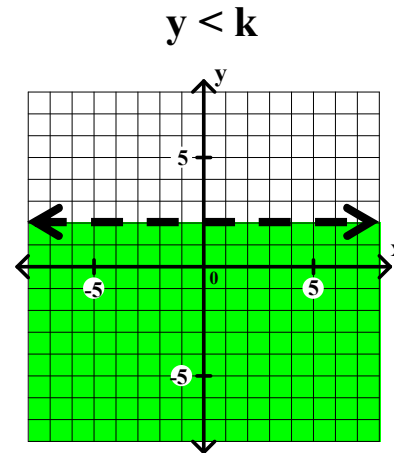
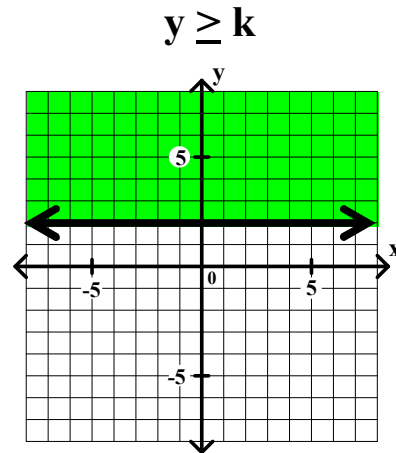
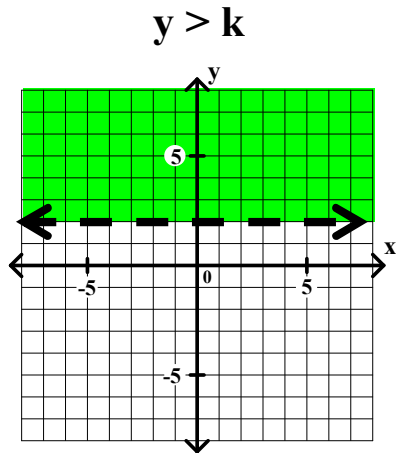
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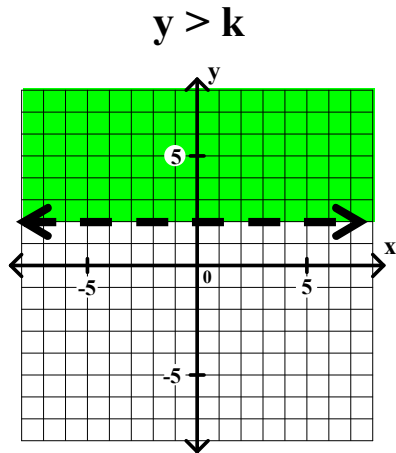
dashed boundary

Shade above the line.

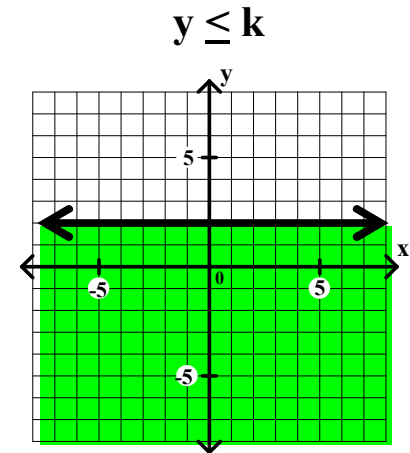
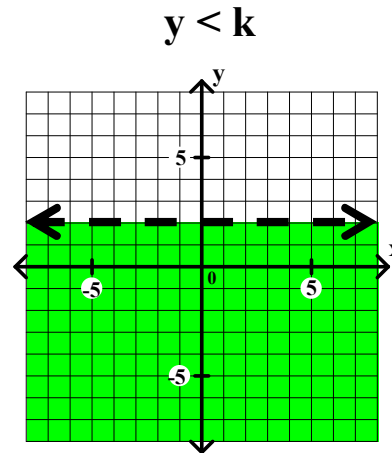
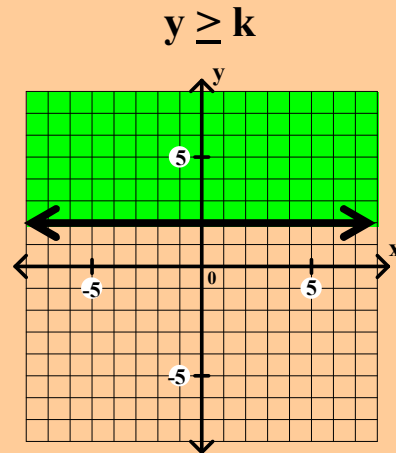
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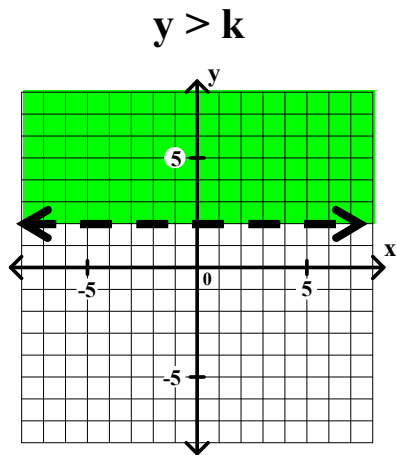
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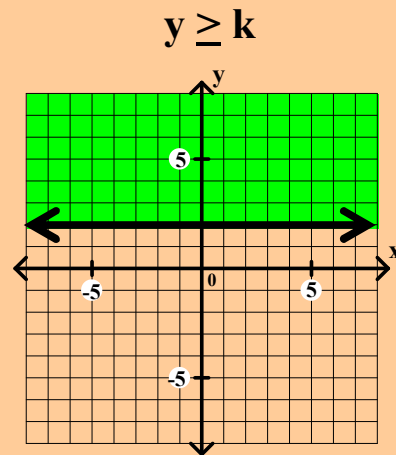
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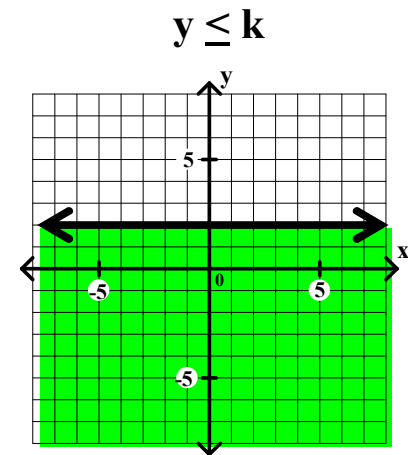
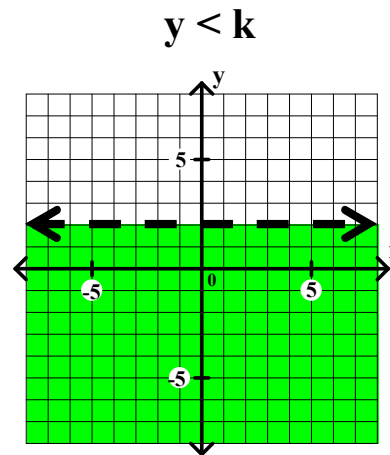
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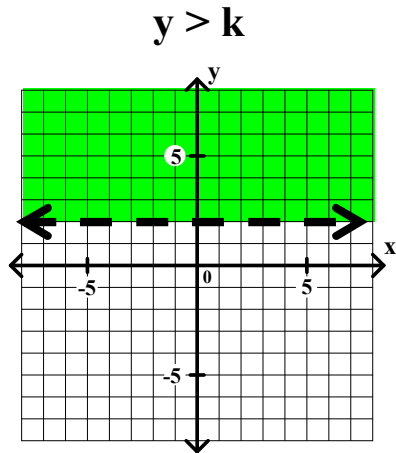
solid boundary



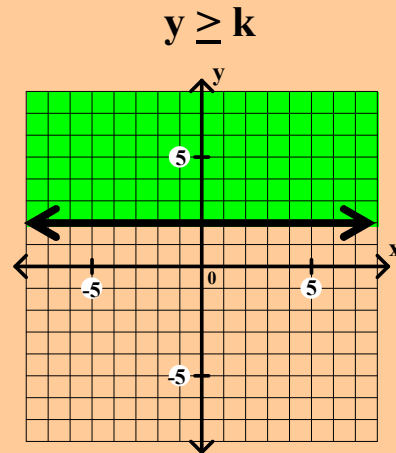
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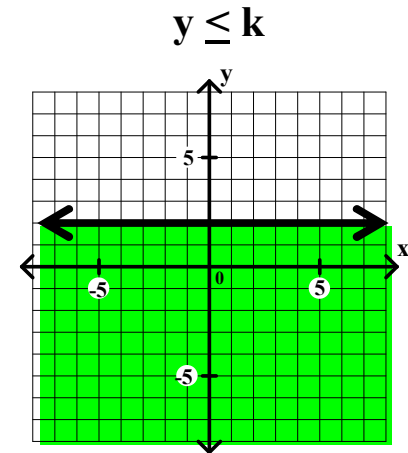
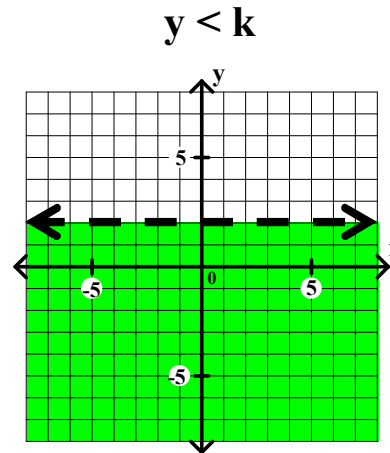
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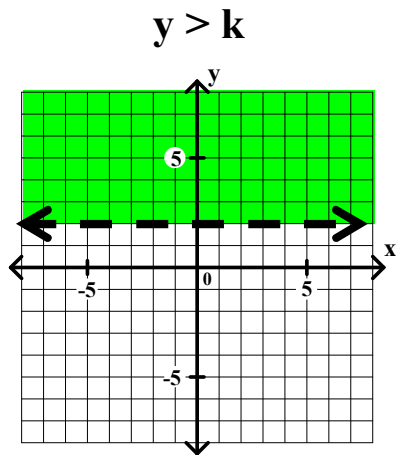
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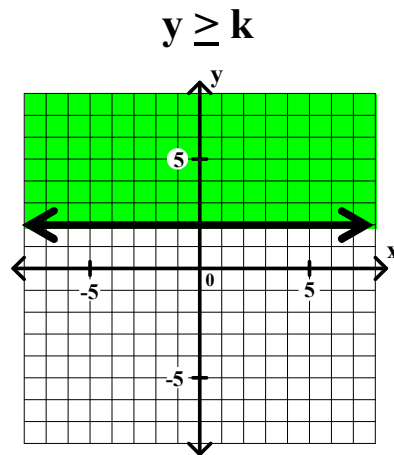
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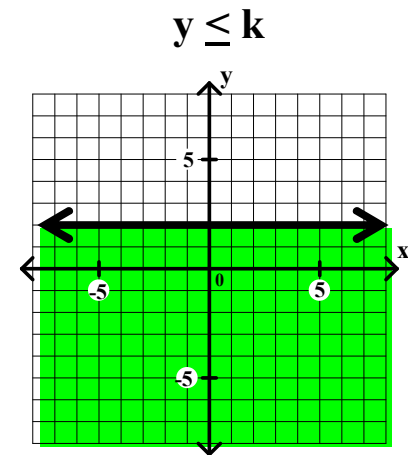
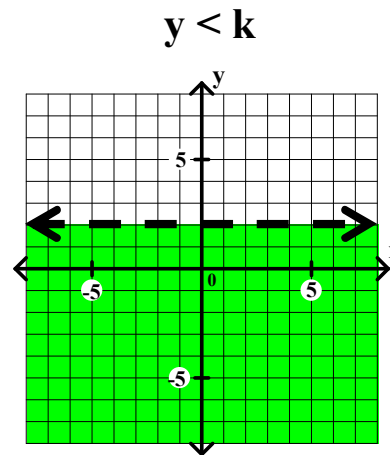
dashed boundary

Shade above the line.



solid boundary

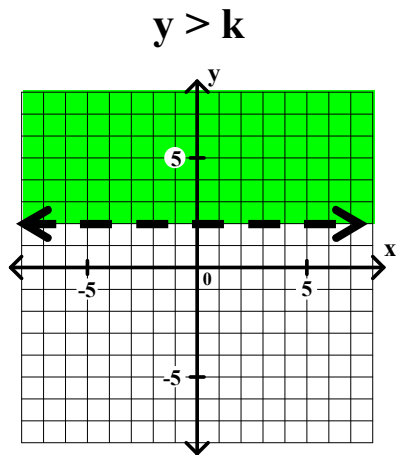
Shade above the line.



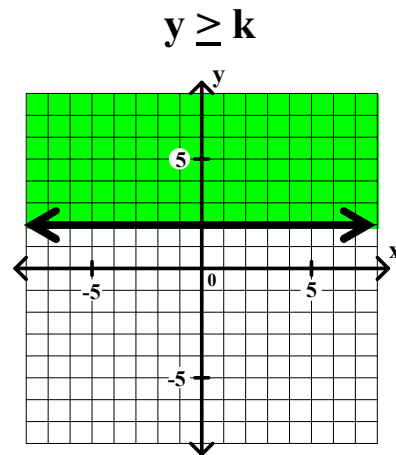
Algebra I Unit 7 Linear Inequalities With 2 Variables

Given any horizontal line $y = k$, there are 4 related inequalities.

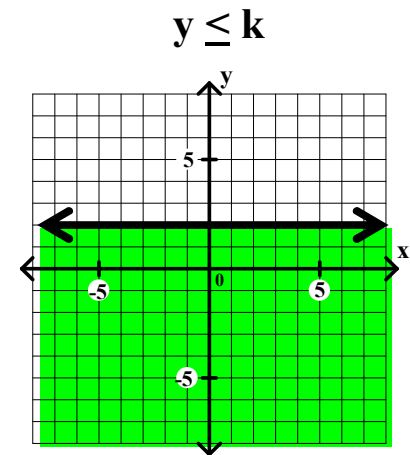
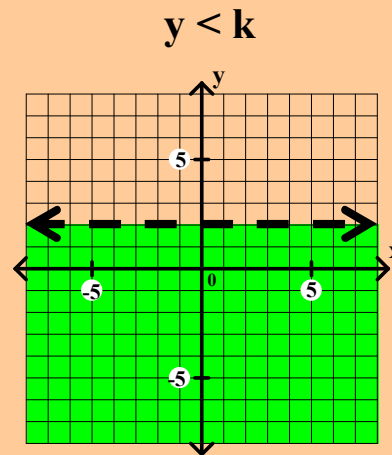
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dashed boundary
Shade above the line.



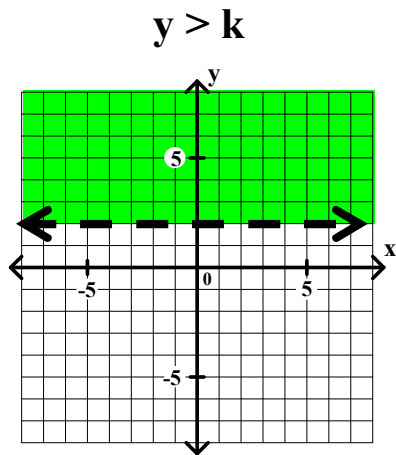
solid boundary
Shade above the line.



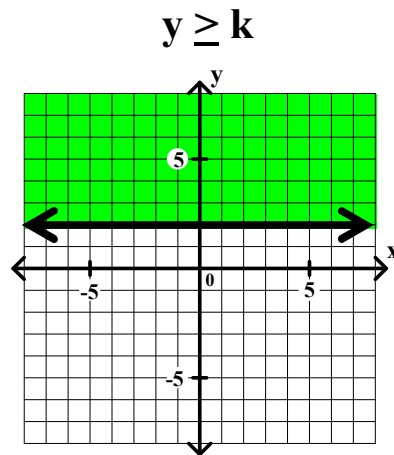
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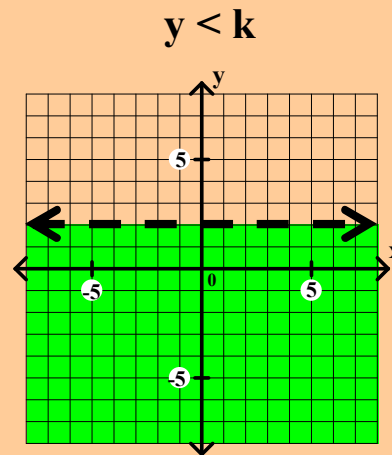
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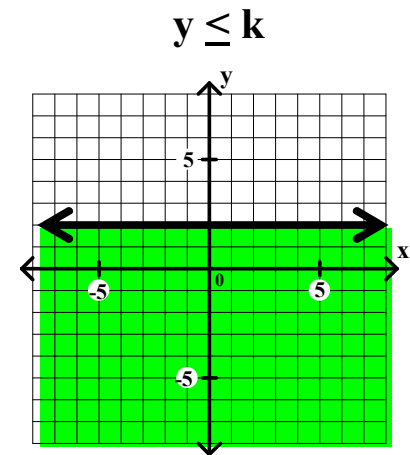
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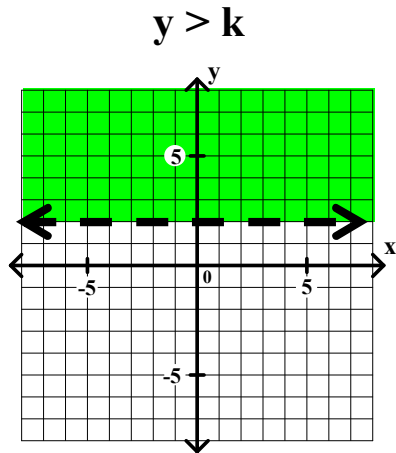
dashed boundary



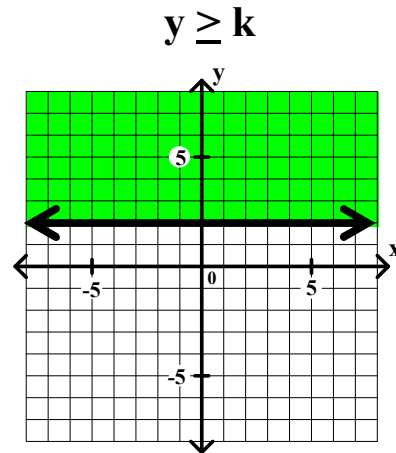
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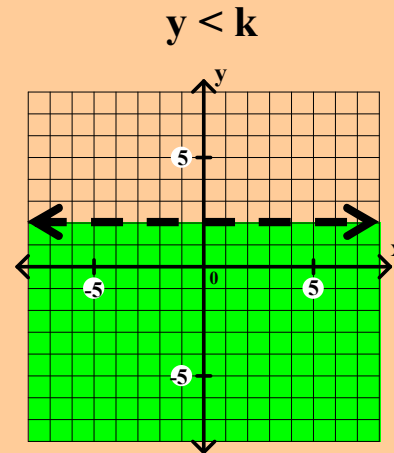
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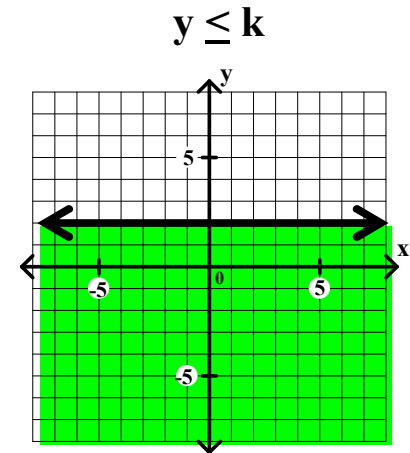
dashed boundary
Shade above the line.



solid boundary
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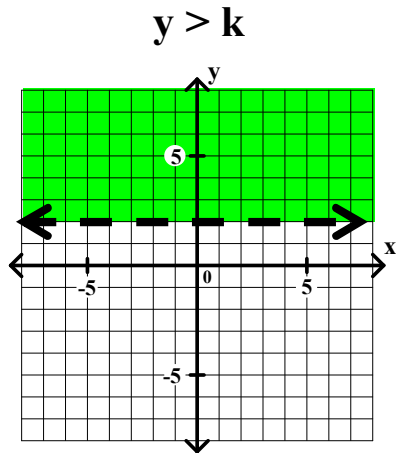
dashed boundary
Shade below the line.



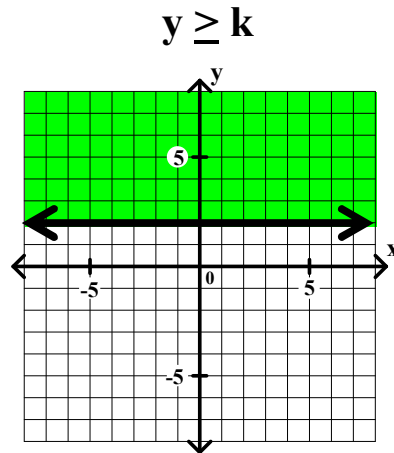
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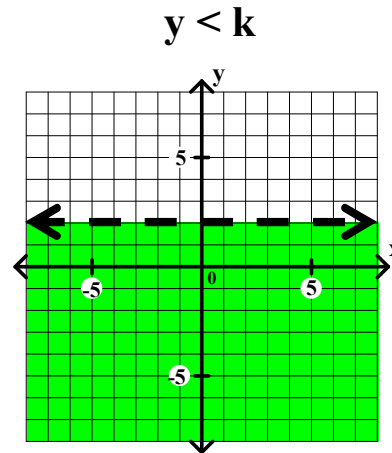
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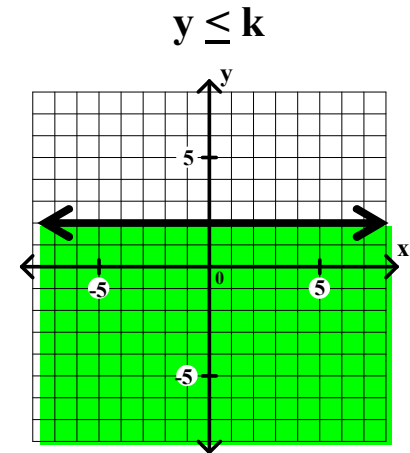
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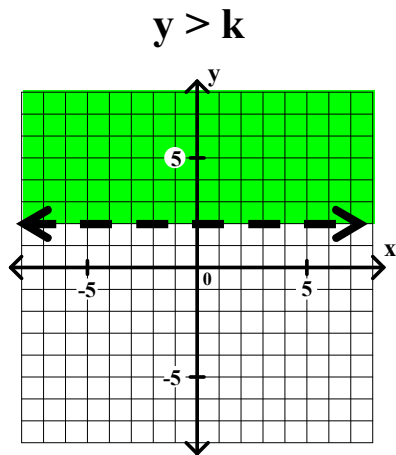
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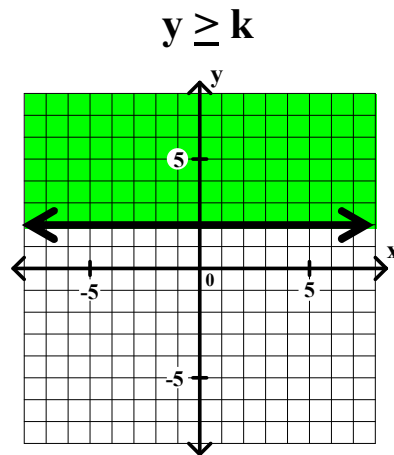
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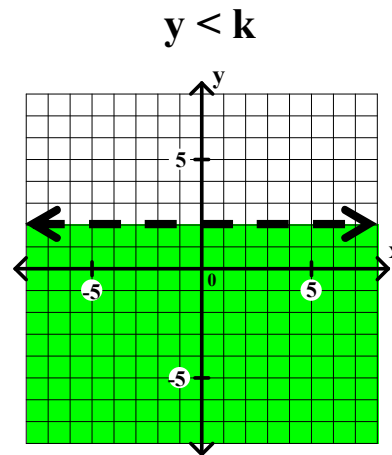
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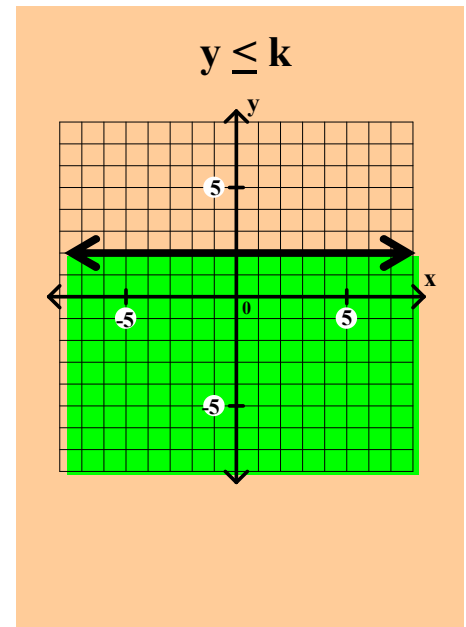
dashed boundary
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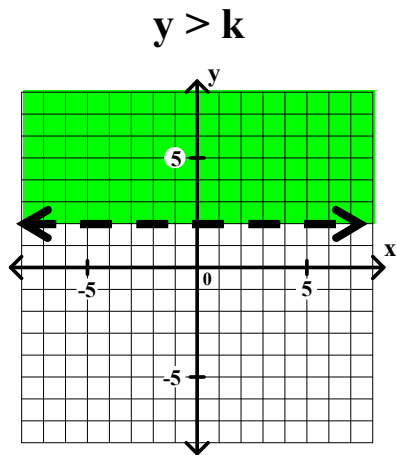
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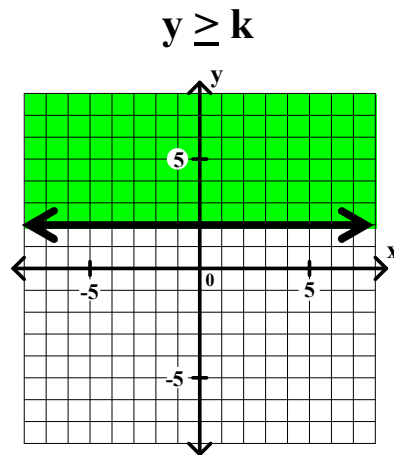
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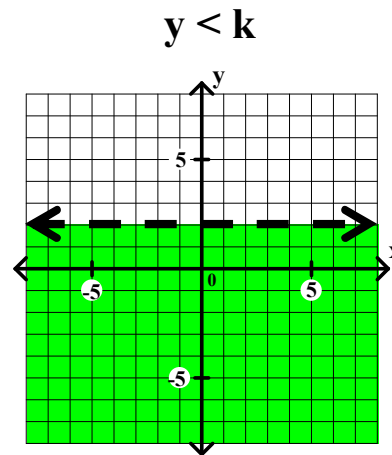
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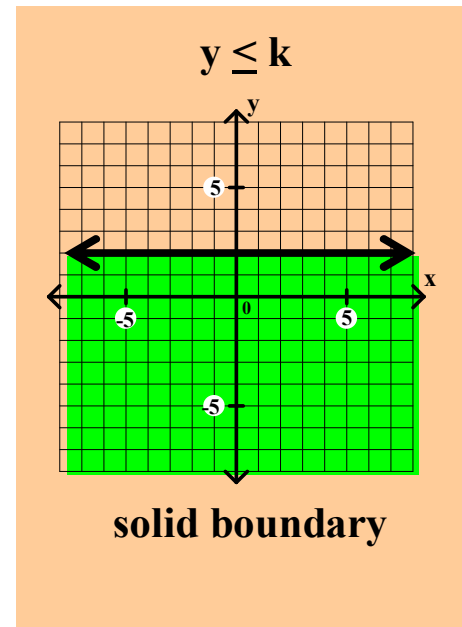
dashed boundary
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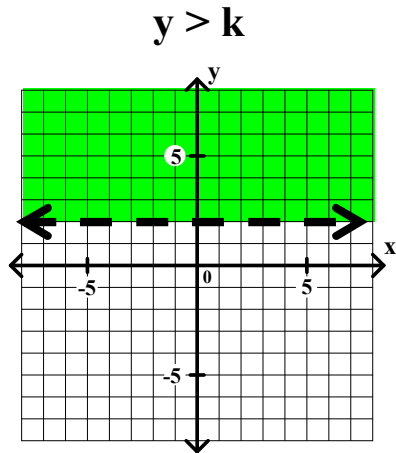


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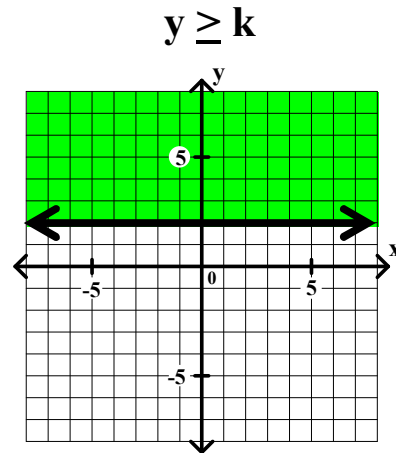
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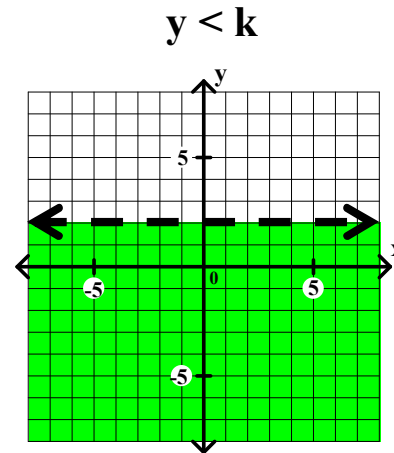
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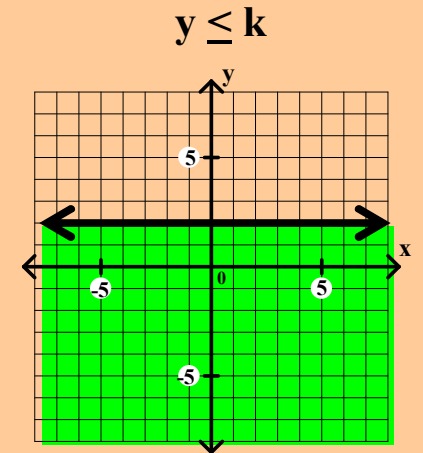
dashed boundary
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solid boundary
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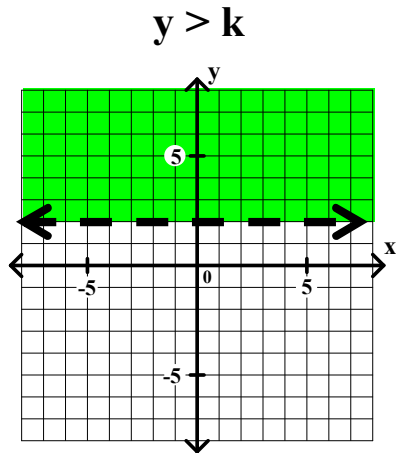


solid boundary
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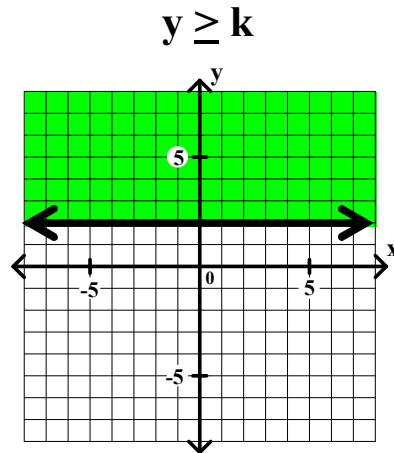
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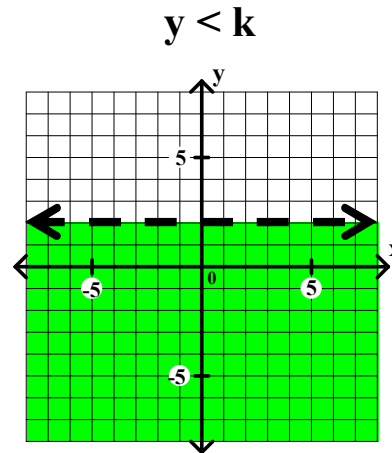
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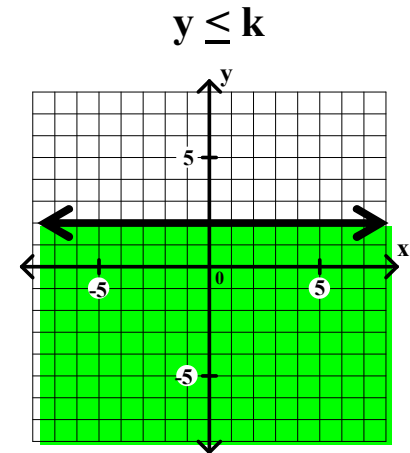
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Algebra I Unit 7 Linear Inequalities With 2 Variables

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Algebra I Unit 7 Linear Inequalities With 2 Variables

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$$x > k$$

Algebra I Unit 7 Linear Inequalities With 2 Variables

Given any vertical line $x = k$, there are 4 related inequalities.

$$x > k$$

$$x \geq k$$

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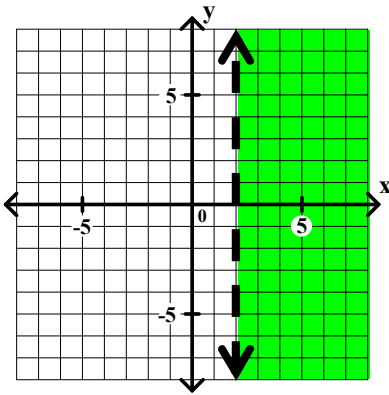
Their graphs look like this.

$$x > k$$

$$x \geq k$$

$$x < k$$

$$x \leq k$$

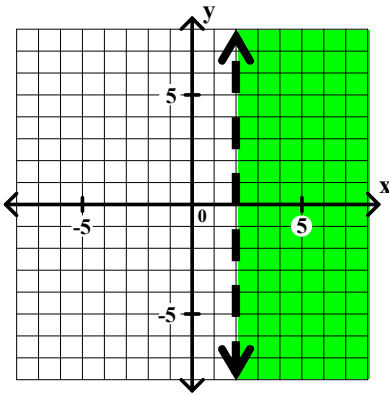


Algebra I Unit 7 Linear Inequalities With 2 Variables

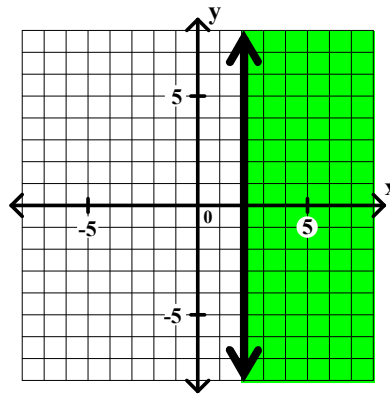
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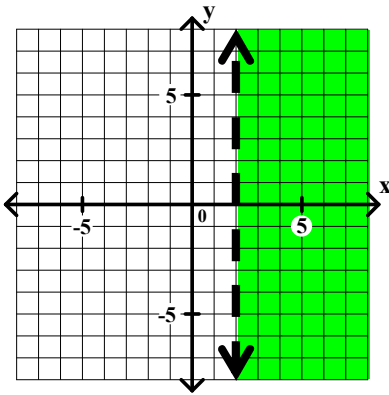
$$x \leq k$$

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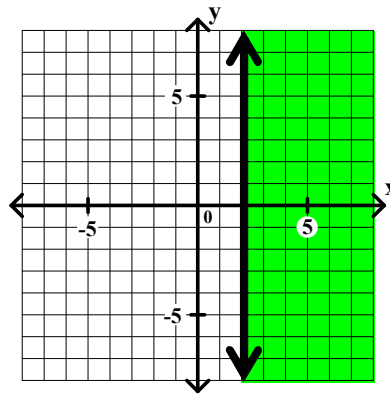
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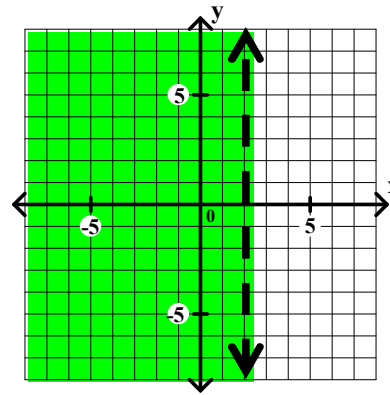
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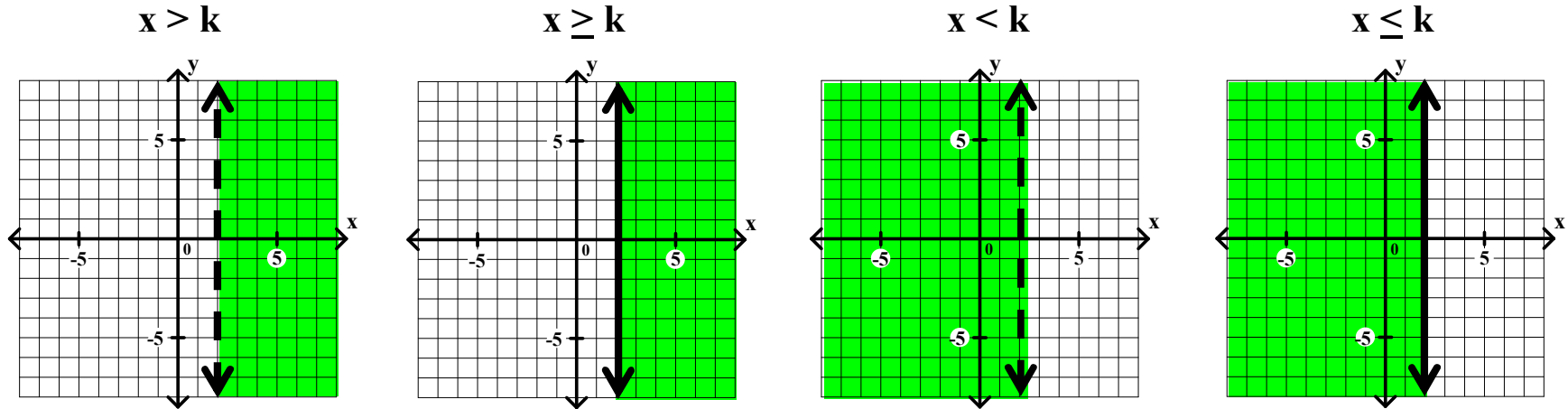


$$x \leq k$$

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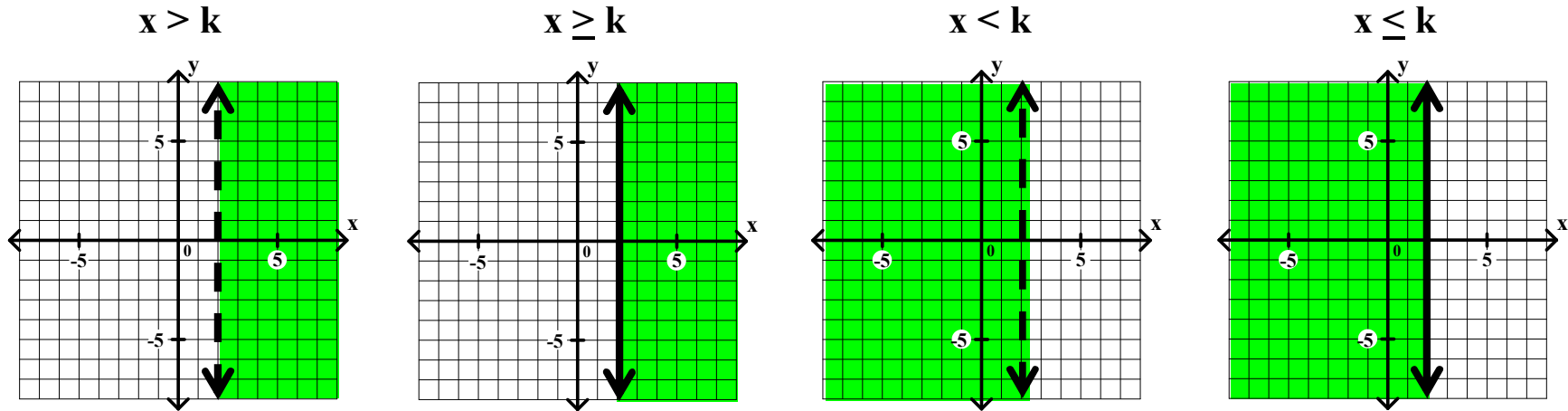
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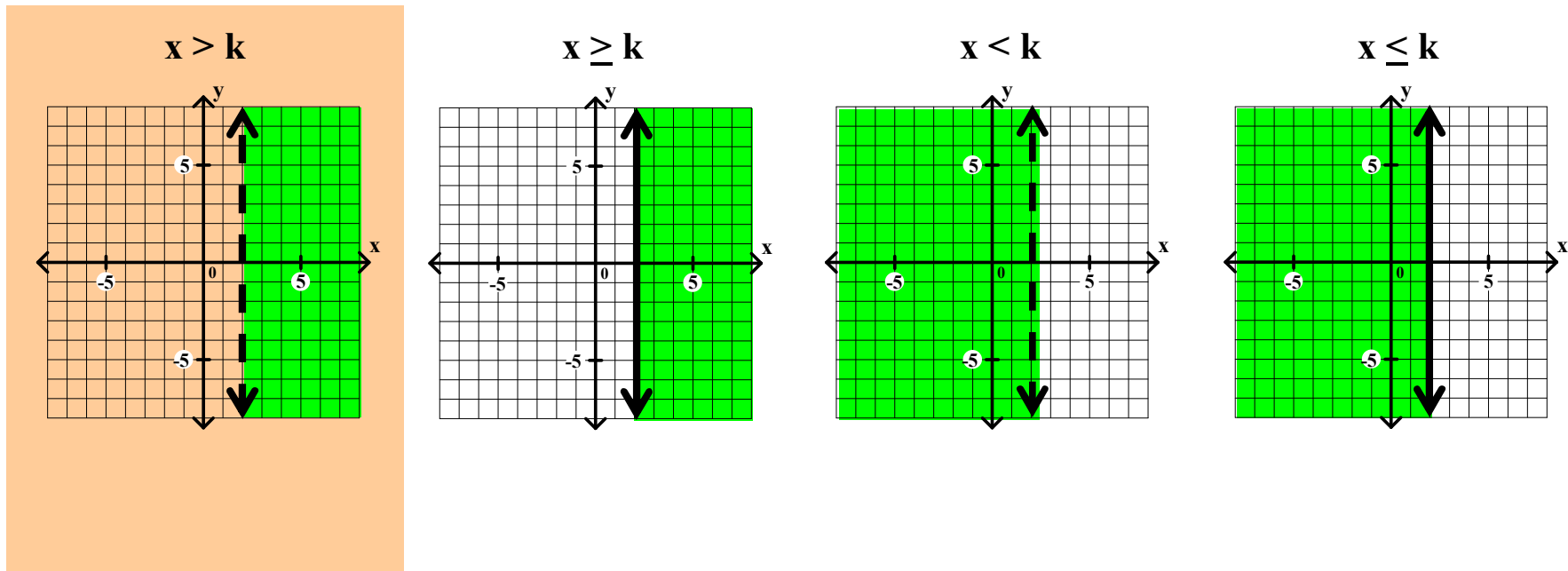
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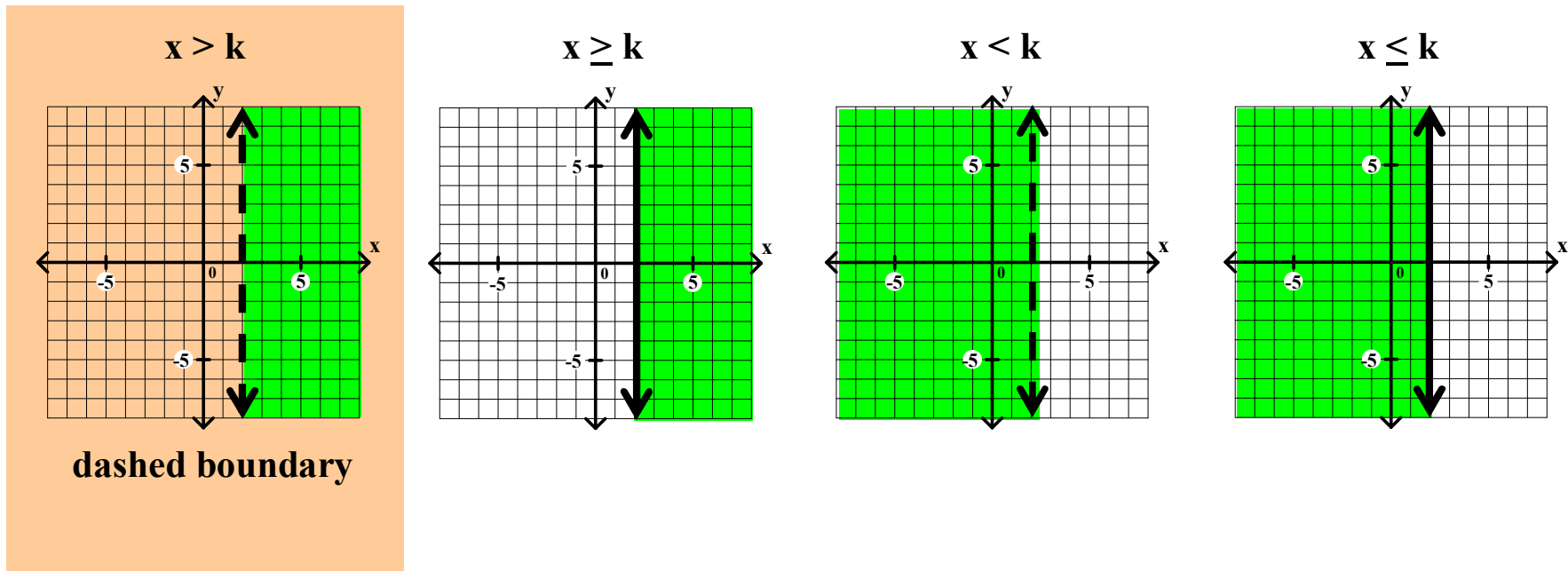
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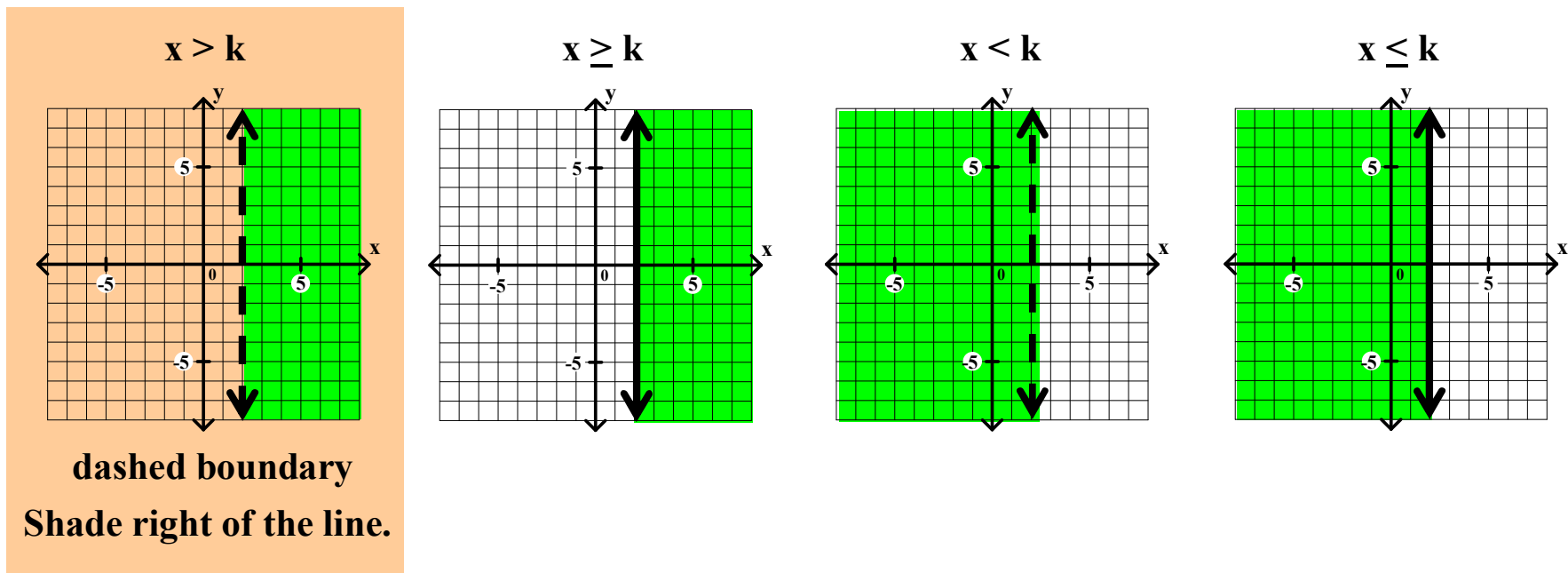
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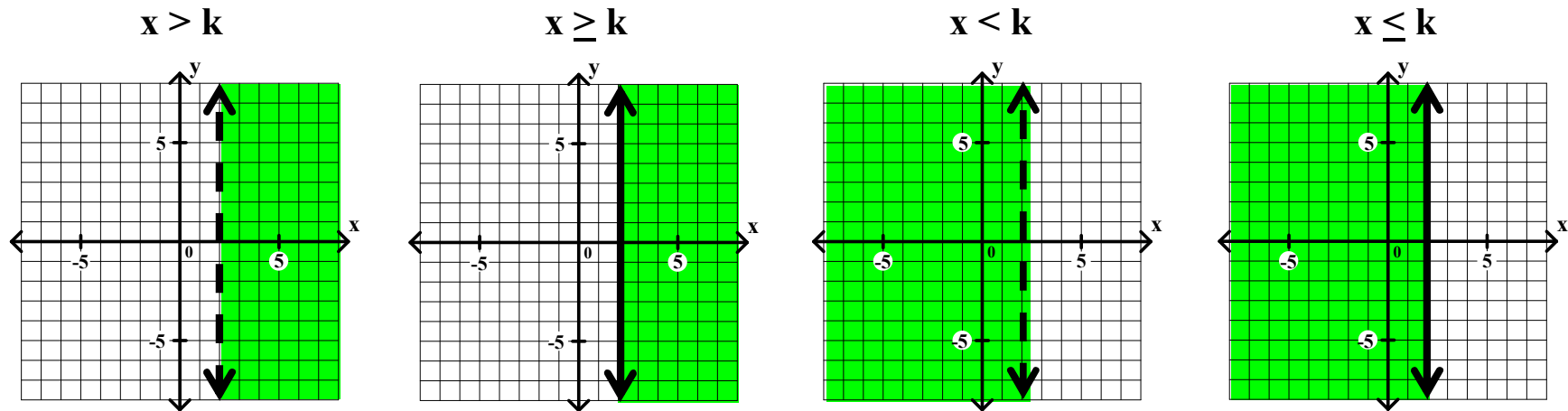
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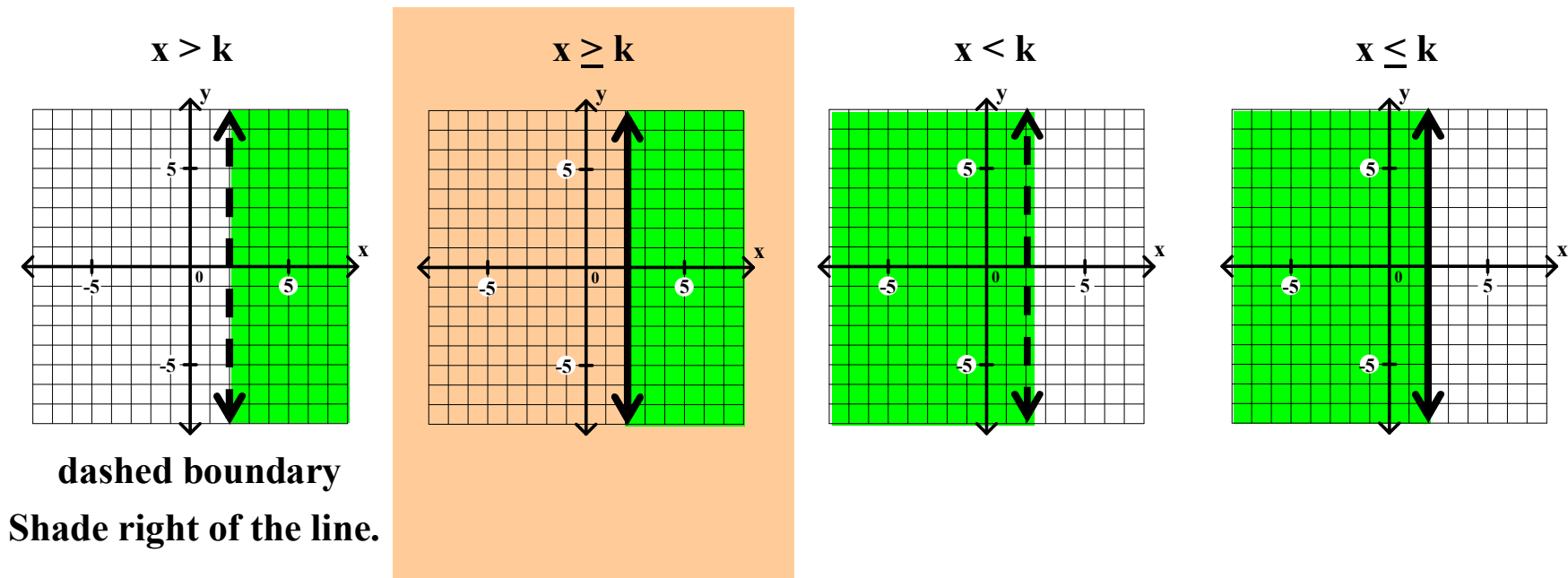
dashed boundary

Shade right of the line.

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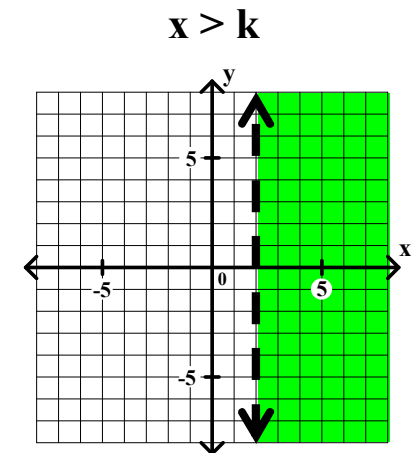
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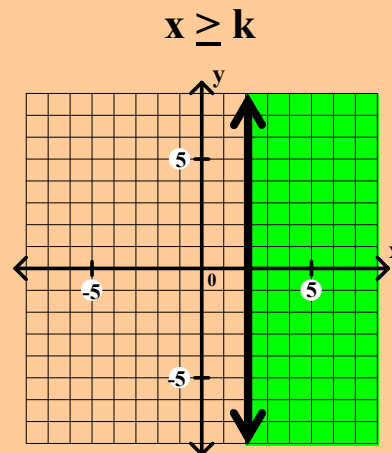
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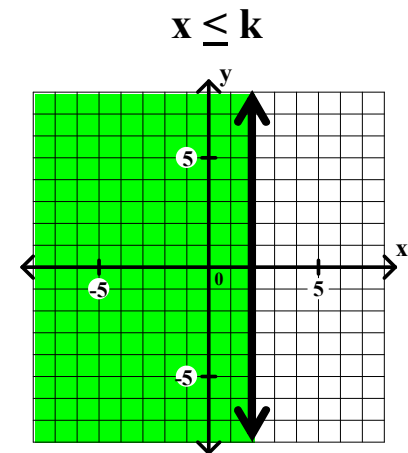
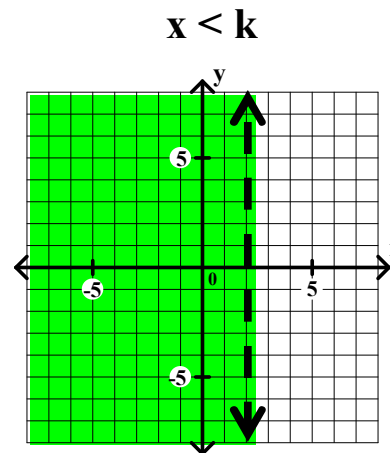


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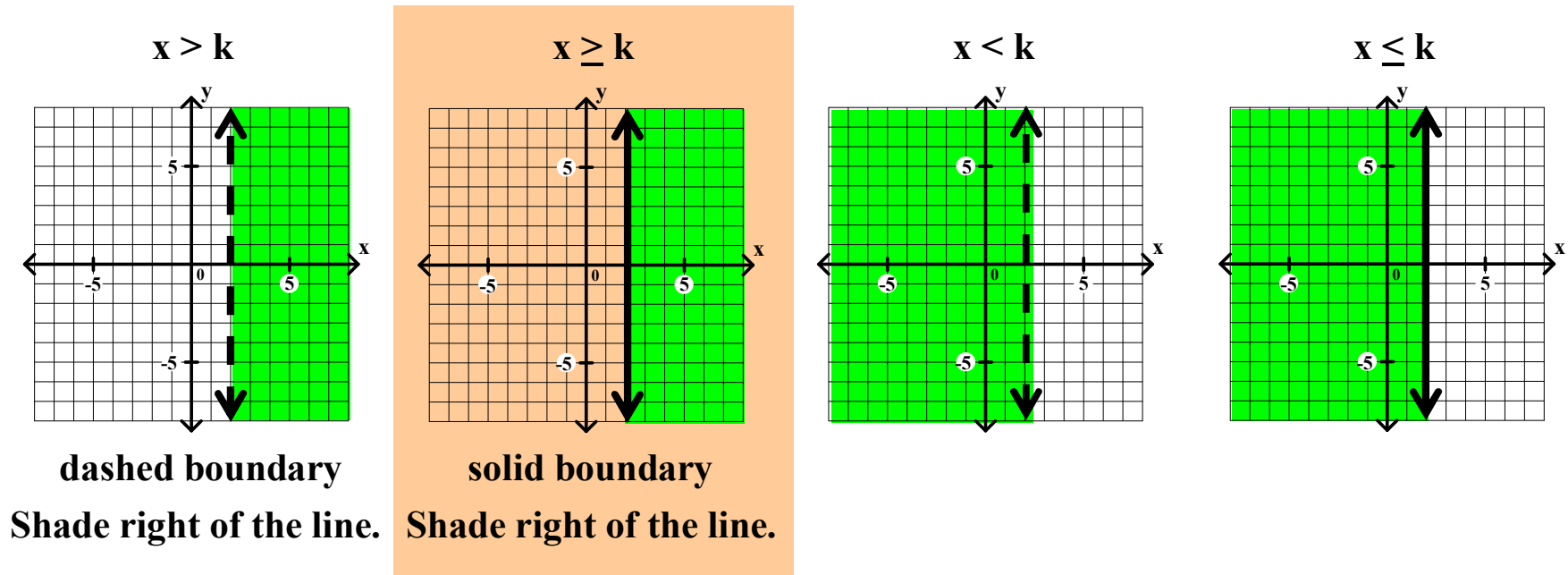
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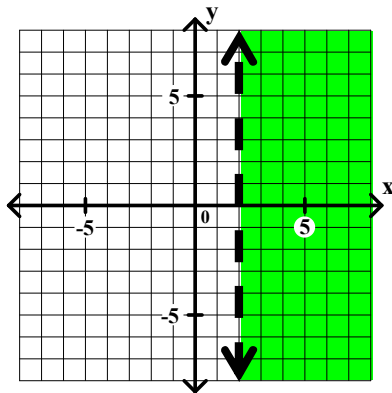


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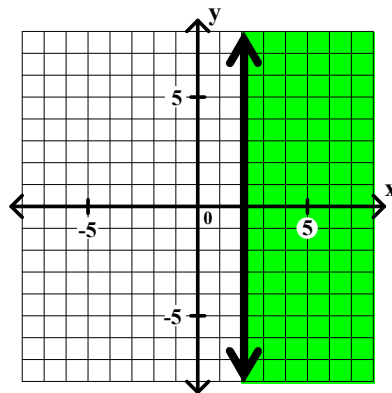
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$$x > k$$



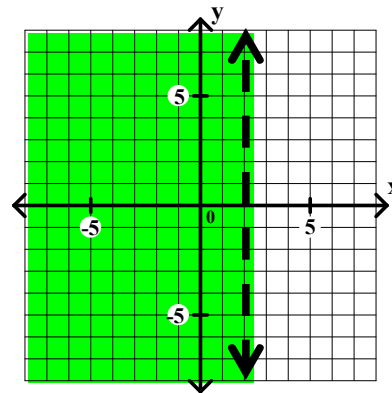
dashed boundary

$$x \geq k$$

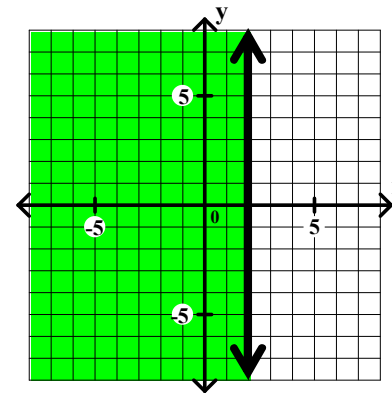


solid boundary

$$x < k$$



$$x \leq k$$

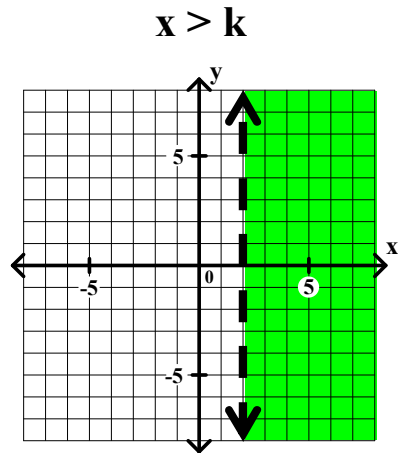


Shade right of the line. Shade right of the line.

Algebra I Unit 7 Linear Inequalities With 2 Variables

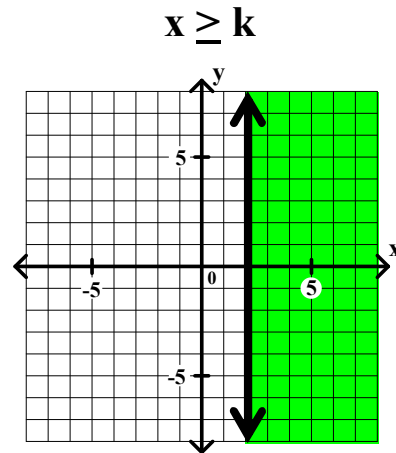
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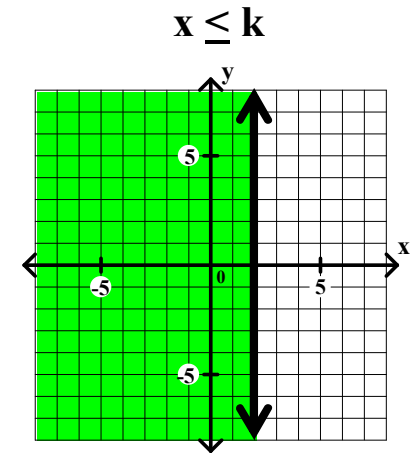
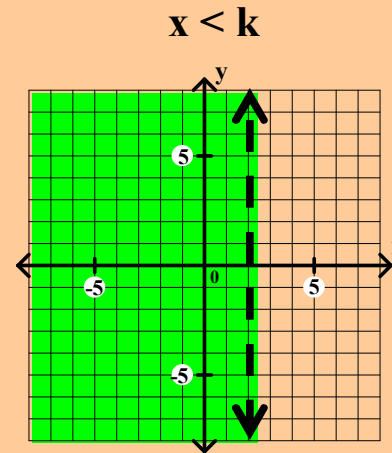
dashed boundary

Shade right of the line.



solid boundary

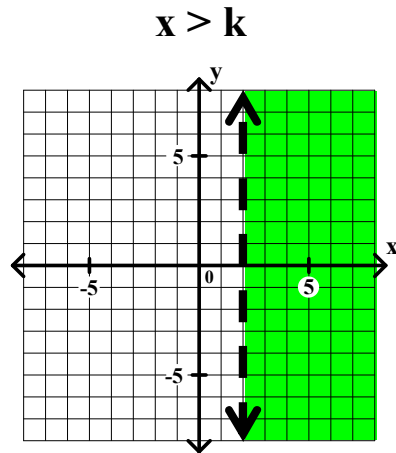
Shade right of the line.



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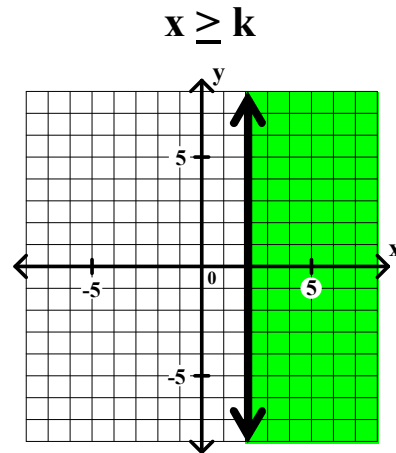
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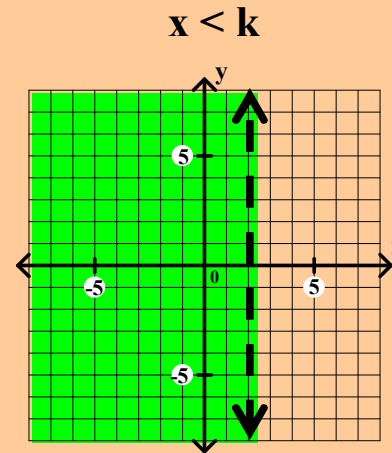
dashed boundary

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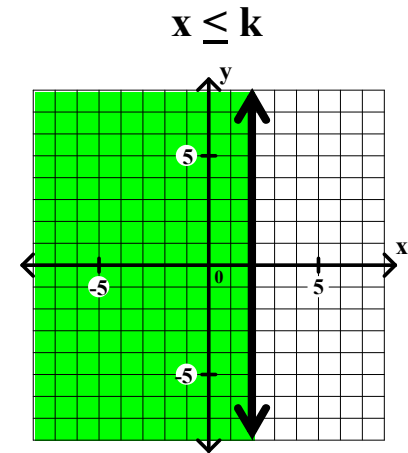


solid boundary

Shade right of the line.



dashed boundary



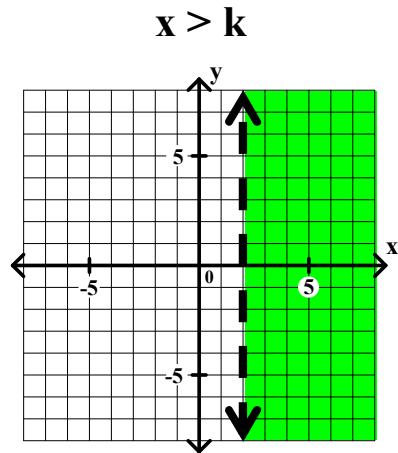
solid boundary

Shade left of the line.

Algebra I Unit 7 Linear Inequalities With 2 Variables

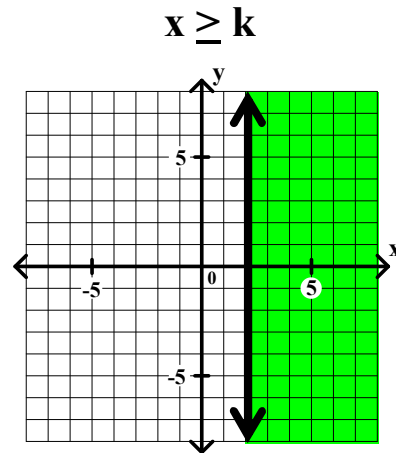
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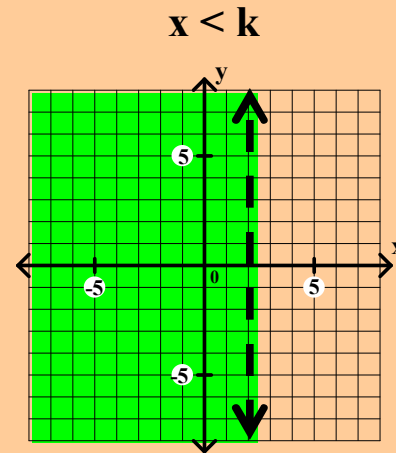
dashed boundary

Shade right of the line.



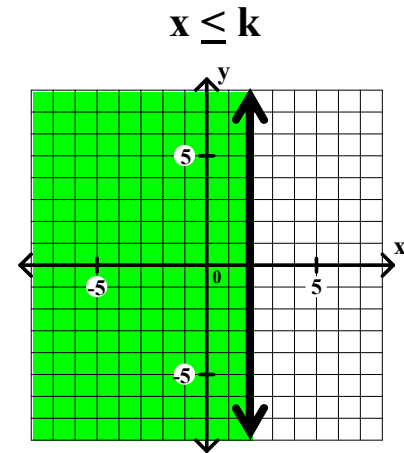
solid boundary

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dashed boundary

Shade left of the line.

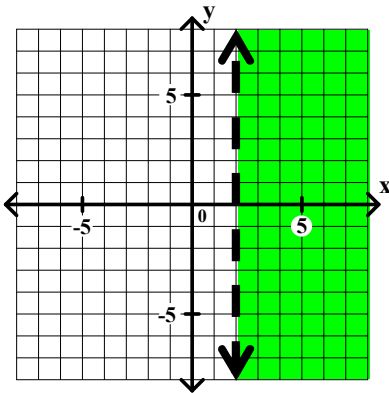


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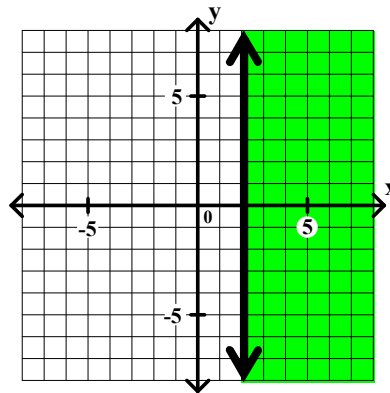
$$x > k$$



dashed boundary

Shade right of the line.

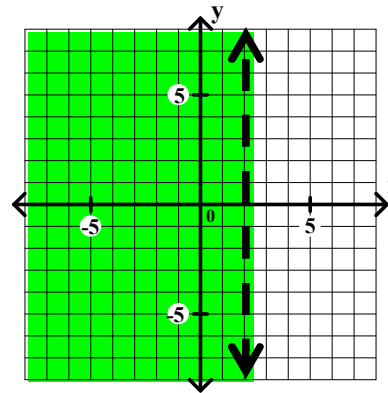
$$x \geq k$$



solid boundary

Shade right of the line.

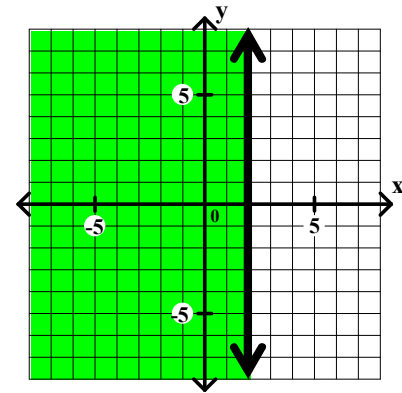
$$x < k$$



dashed boundary

Shade left of the line.

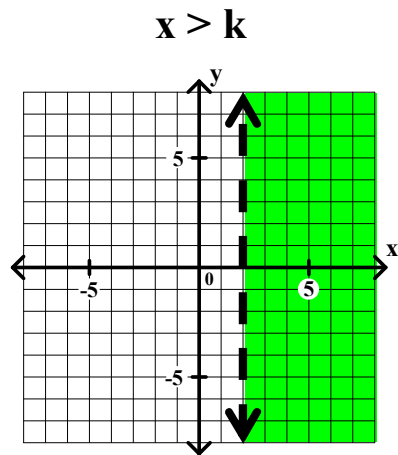
$$x \leq k$$



Algebra I Unit 7 Linear Inequalities With 2 Variables

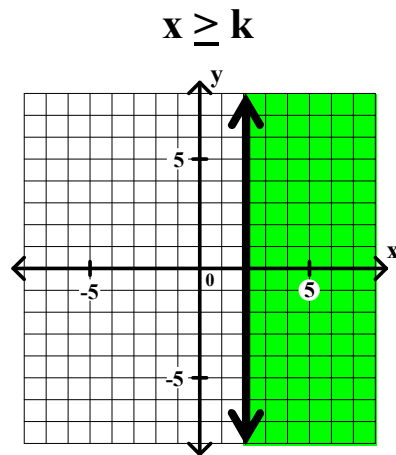
Given any vertical line $x = k$, there are 4 related inequalities.

Their graphs look like this. The line $x = k$ is the boundary line in each case.



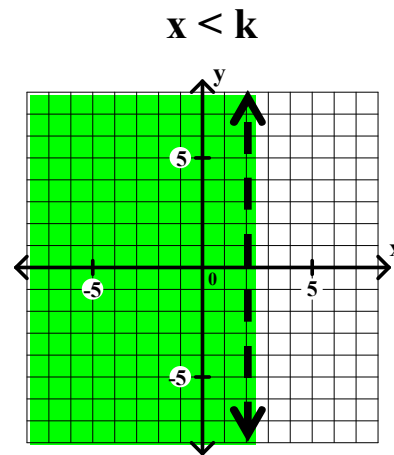
dashed boundary

Shade right of the line.



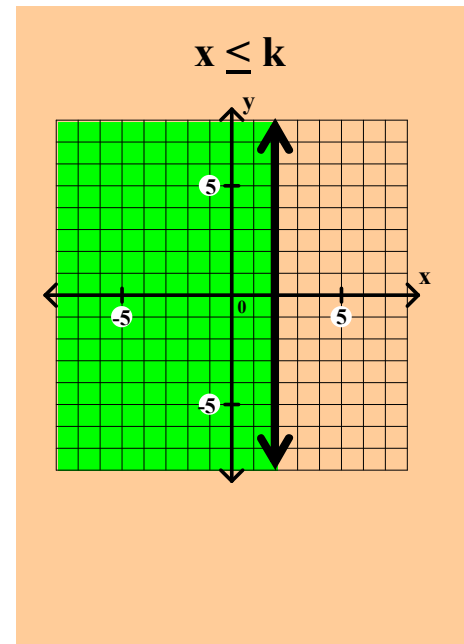
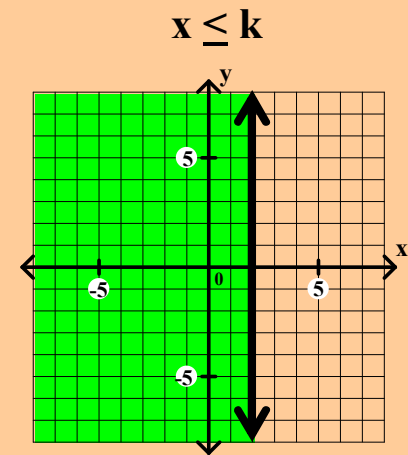
solid boundary

Shade right of the line.



dashed boundary

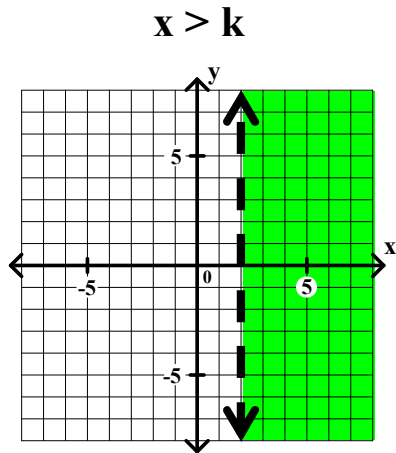
Shade left of the line.



Algebra I Unit 7 Linear Inequalities With 2 Variables

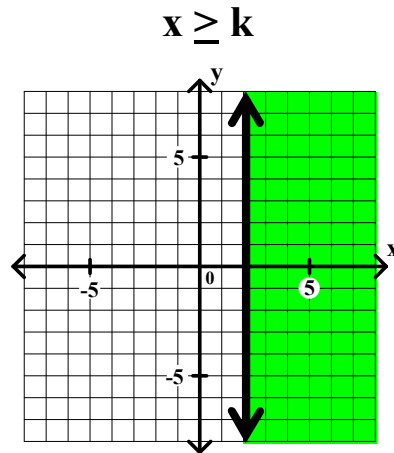
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Their graphs look like this. The line $x = k$ is the boundary line in each case.



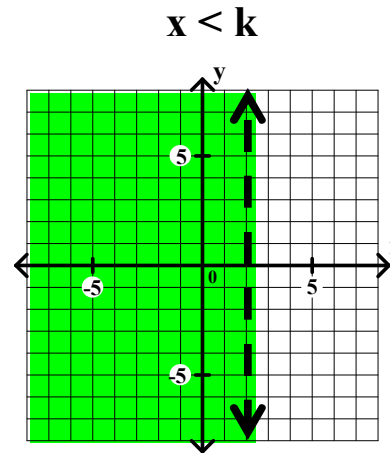
dashed boundary

Shade right of the line.



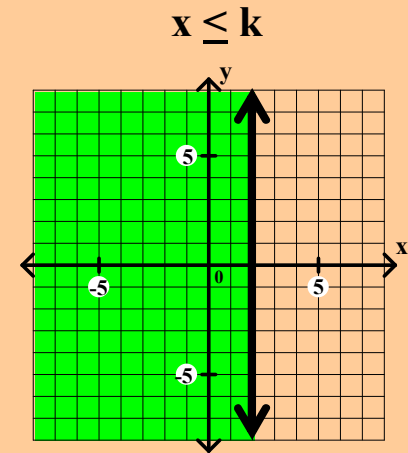
solid boundary

Shade right of the line.



dashed boundary

Shade left of the line.

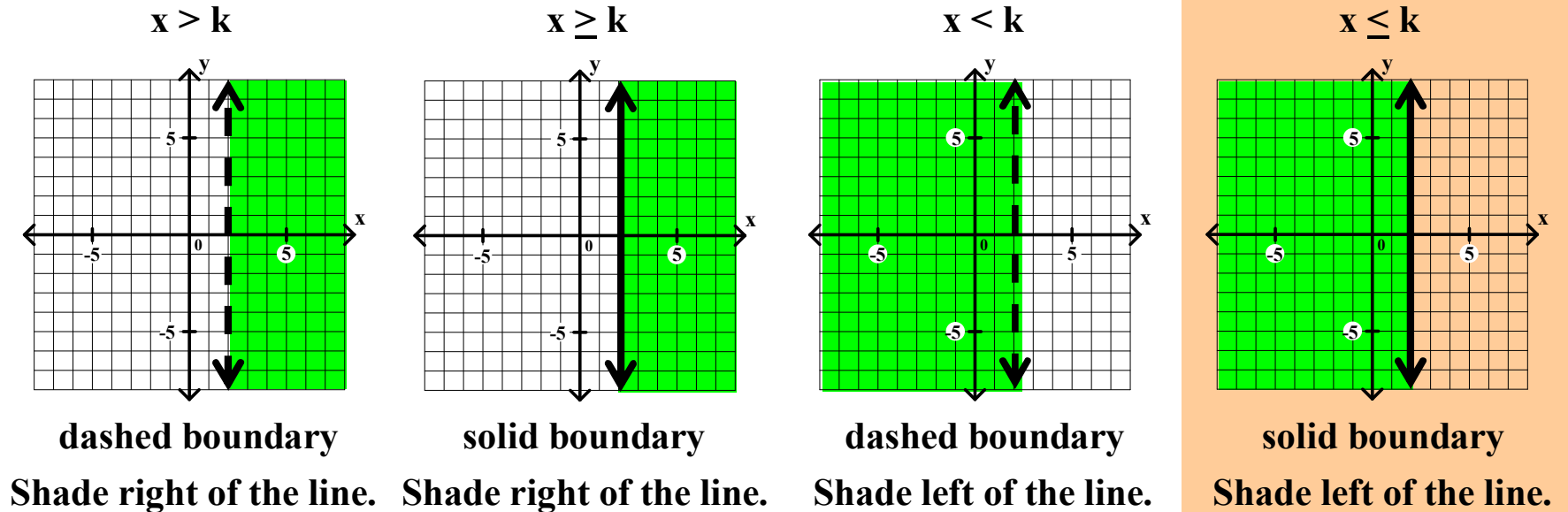


solid boundary

Algebra I Unit 7 Linear Inequalities With 2 Variables

Given any vertical line $x = k$, there are 4 related inequalities.

Their graphs look like this. The line $x = k$ is the boundary line in each case.

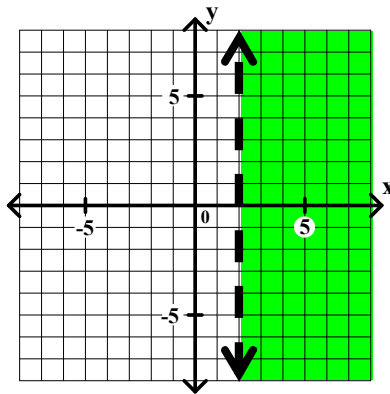


Algebra I Unit 7 Linear Inequalities With 2 Variables

Given any vertical line $x = k$, there are 4 related inequalities.

Their graphs look like this. The line $x = k$ is the boundary line in each case.

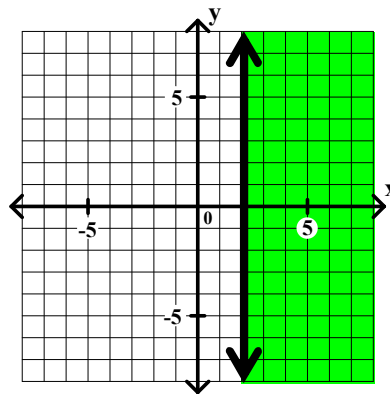
$$x > k$$



dashed boundary

Shade right of the line.

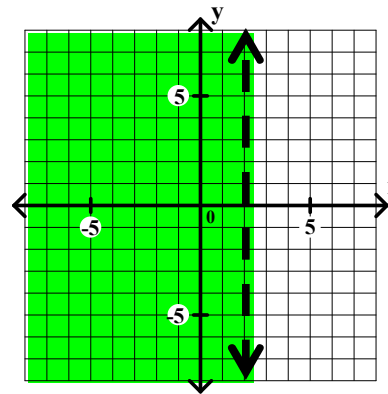
$$x \geq k$$



solid boundary

Shade right of the line.

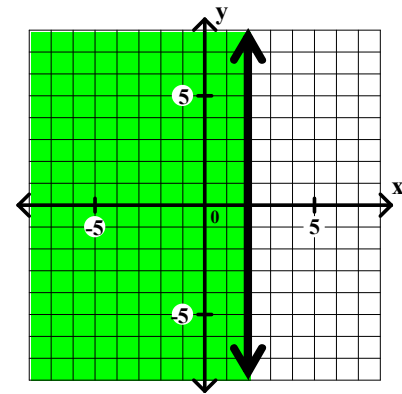
$$x < k$$



dashed boundary

Shade left of the line.

$$x \leq k$$



solid boundary

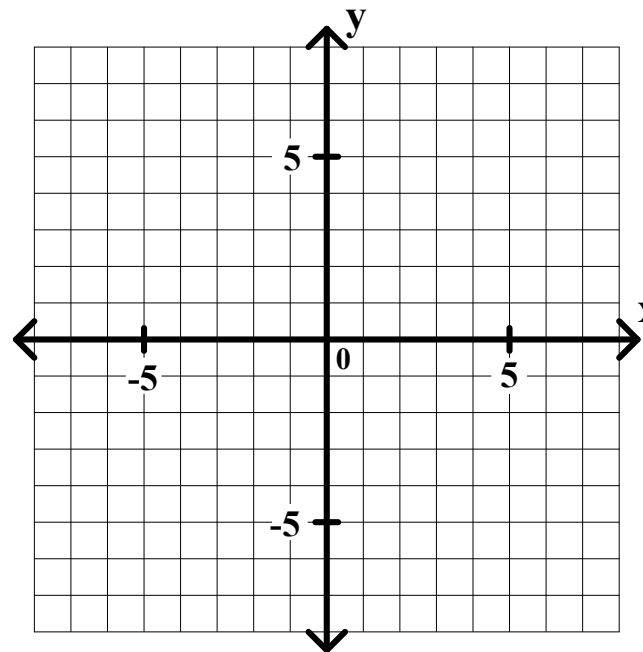
Shade left of the line.

Algebra I Class Worksheet #3 Unit 7

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

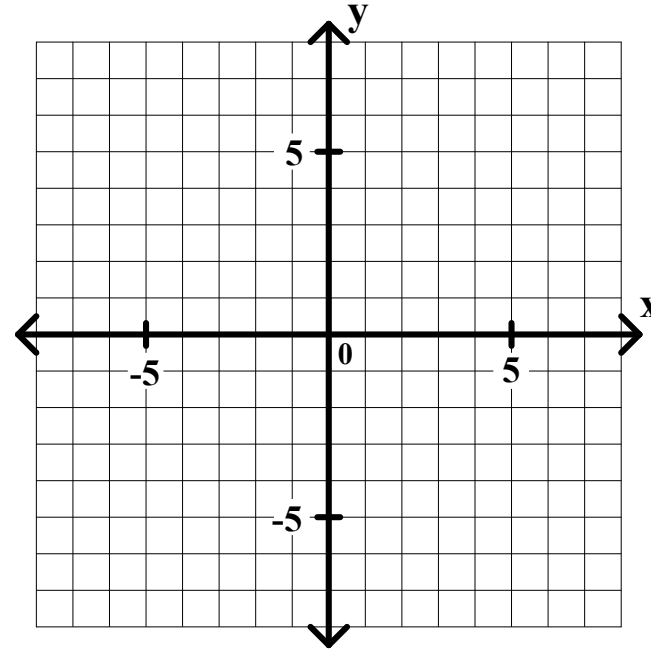
1. $y < -2$



Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$



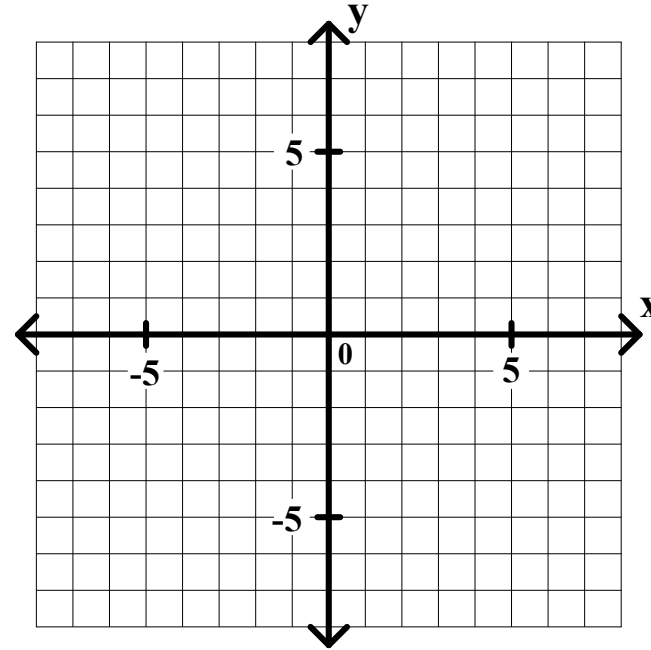
Step 1: Graph several points on the boundary line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.



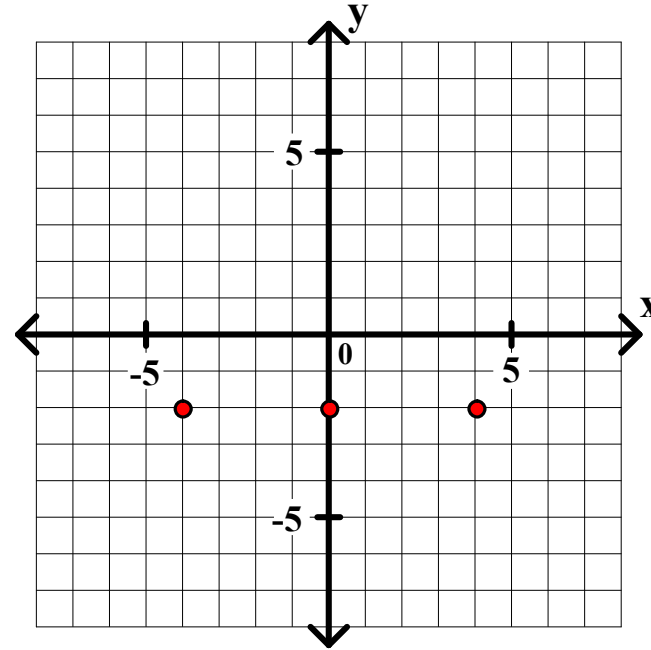
Step 1: Graph several points on the boundary line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.



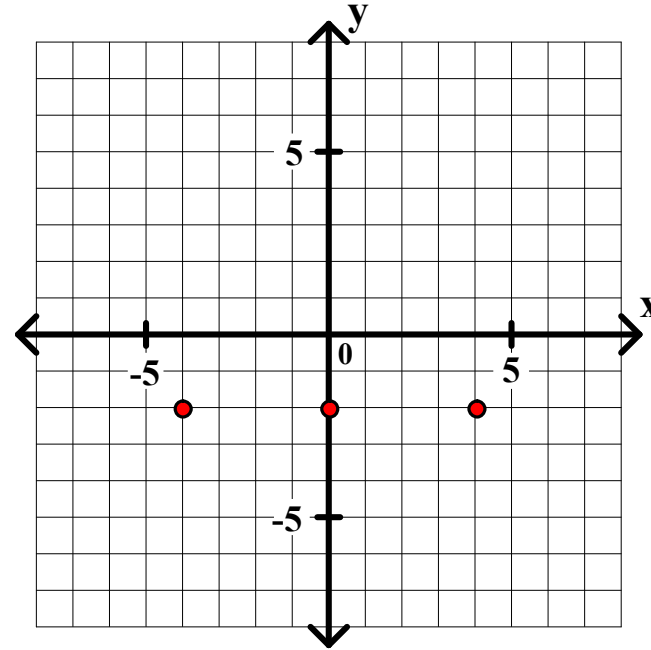
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Algebra I Class Worksheet #3 Unit 7

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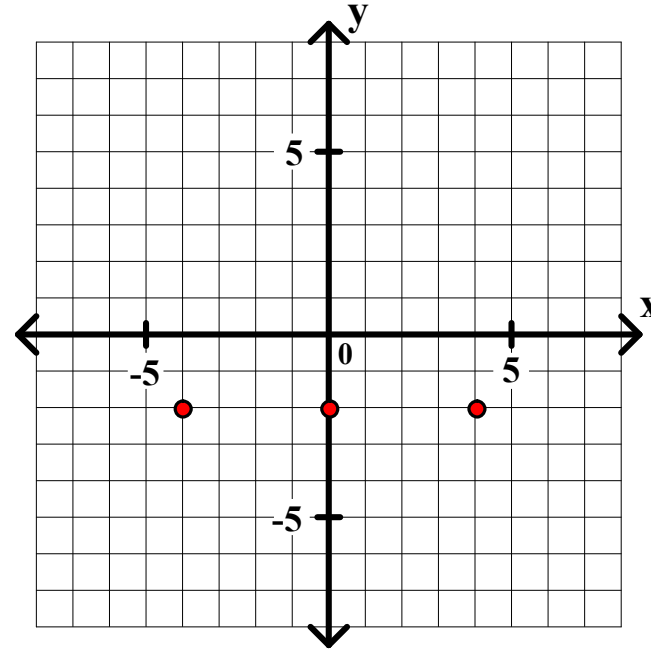
Step 1: Graph several points on the boundary line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

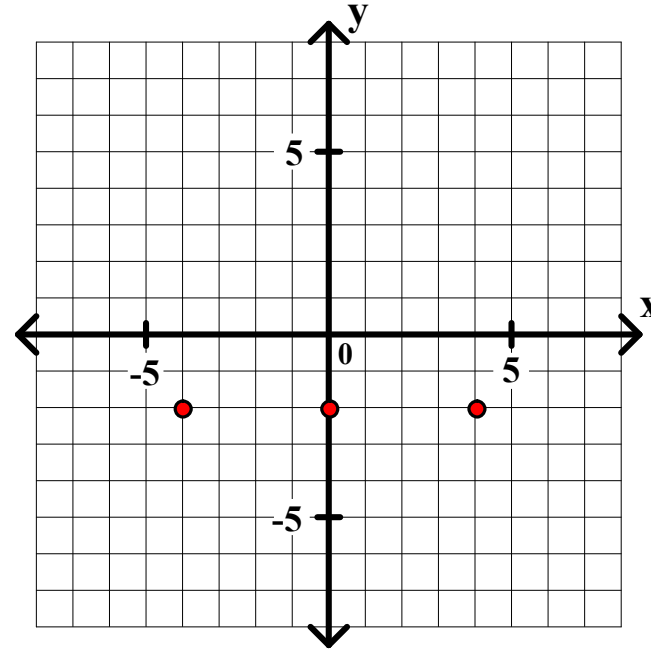
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

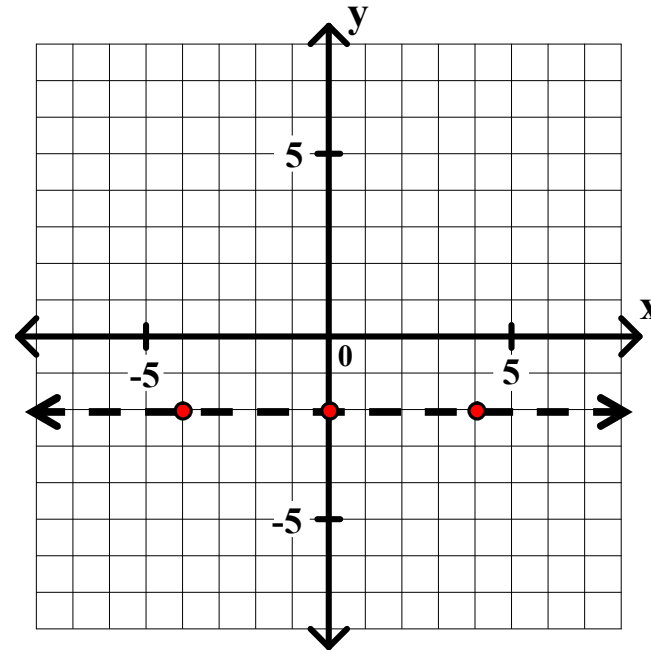
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

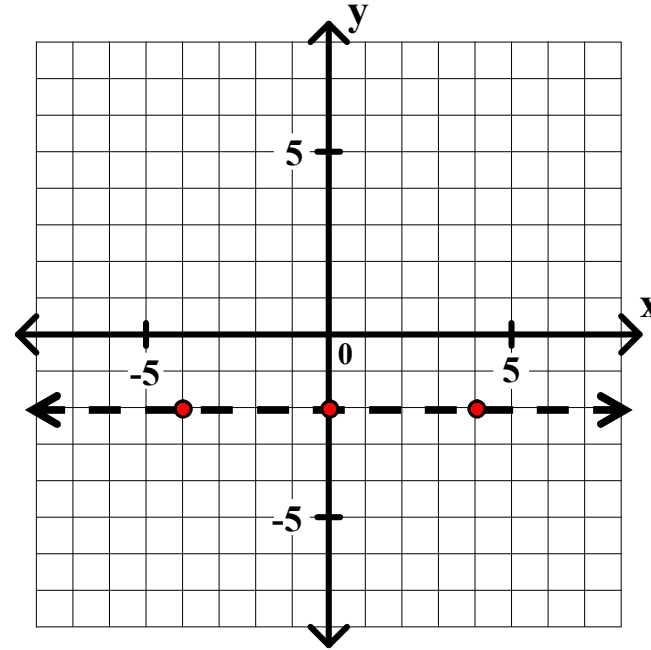
Algebra I Class Worksheet #3 Unit 7

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1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

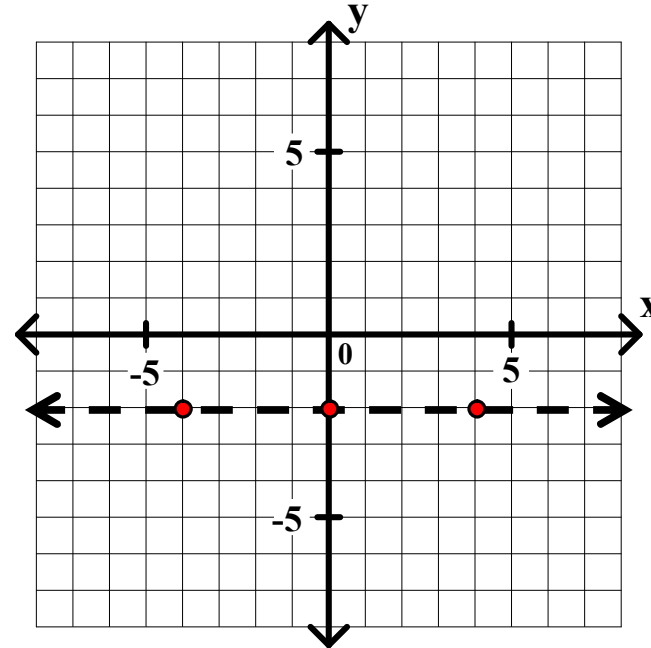
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

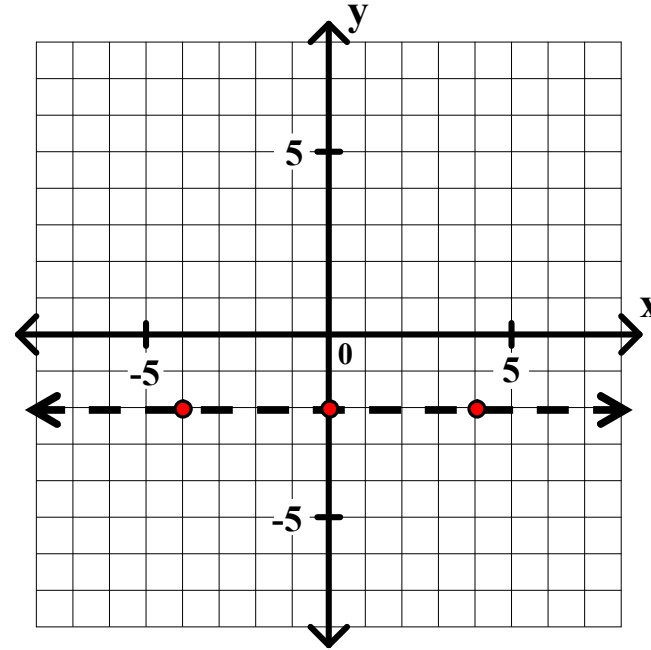
Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.

Shade below the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

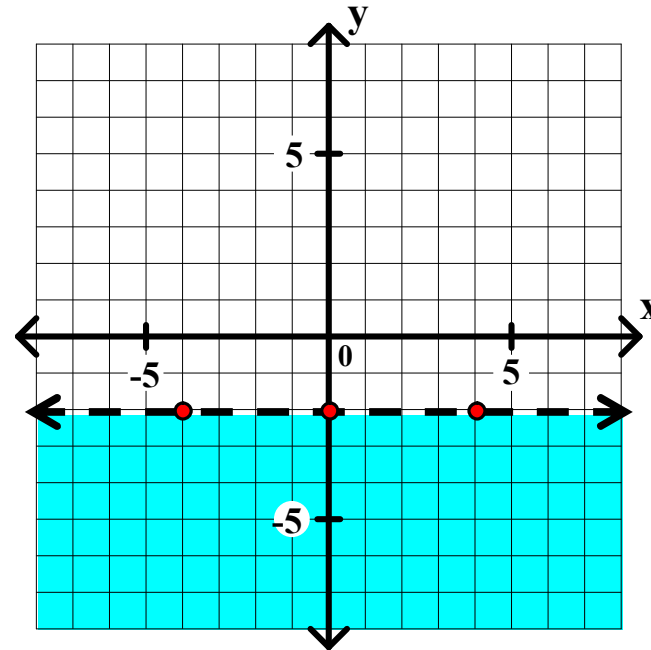
Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.

Shade below the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

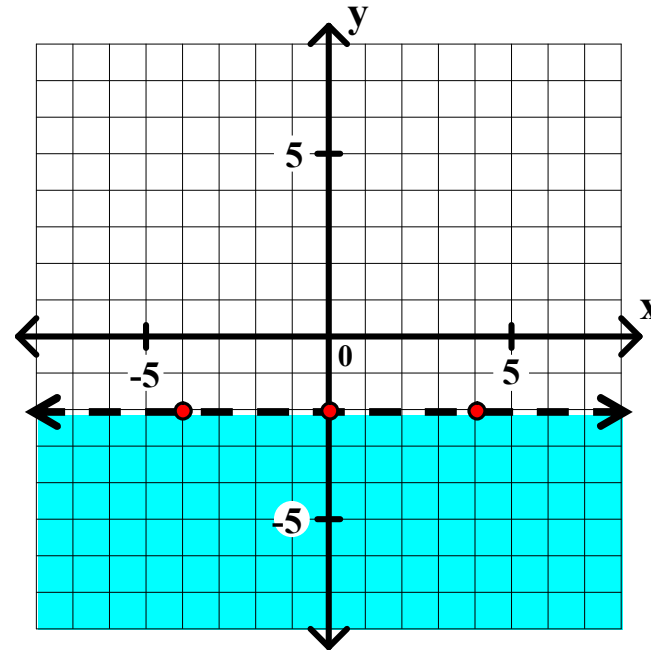
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The boundary line is a dashed line.

Shade below the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

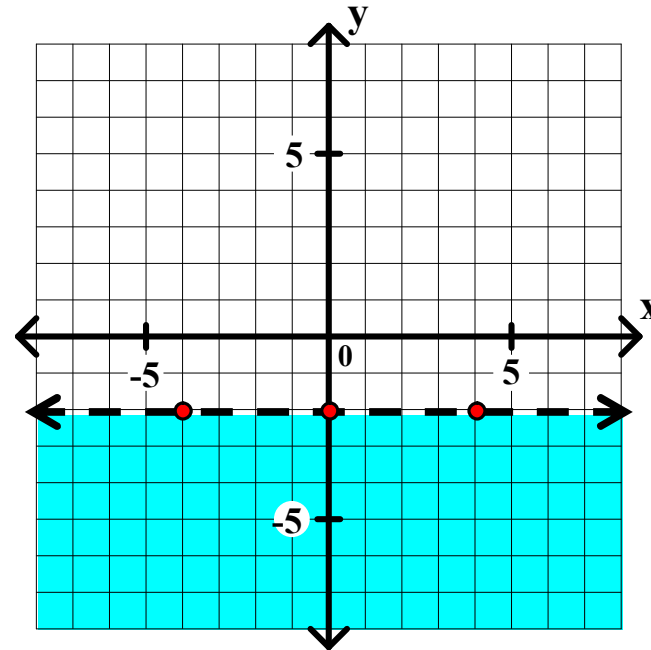
Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.

Shade below the line.



Every point in the shaded region has a y-coordinate less than 2 !!

Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

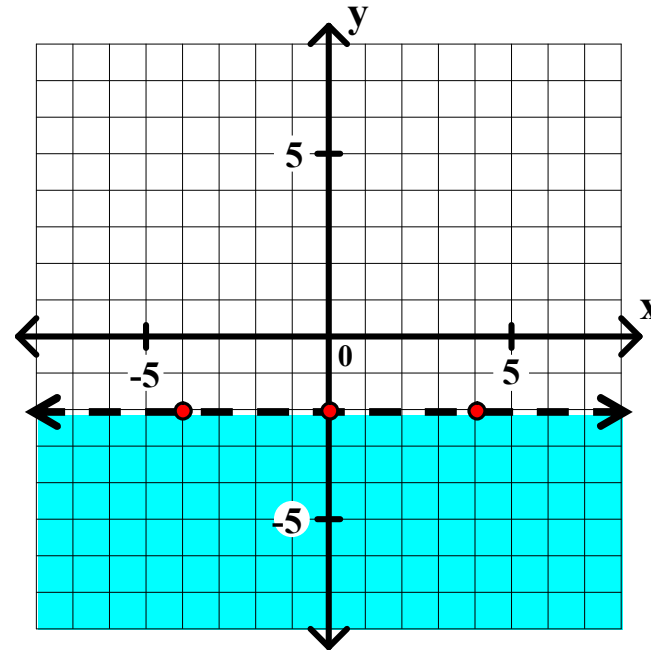
Graph each of the following.

1. $y < -2$

The boundary line is the horizontal line $y = -2$.

The boundary line is a dashed line.

Shade below the line.



Every point in the shaded region has a y-coordinate less than 2 !! Right?

Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

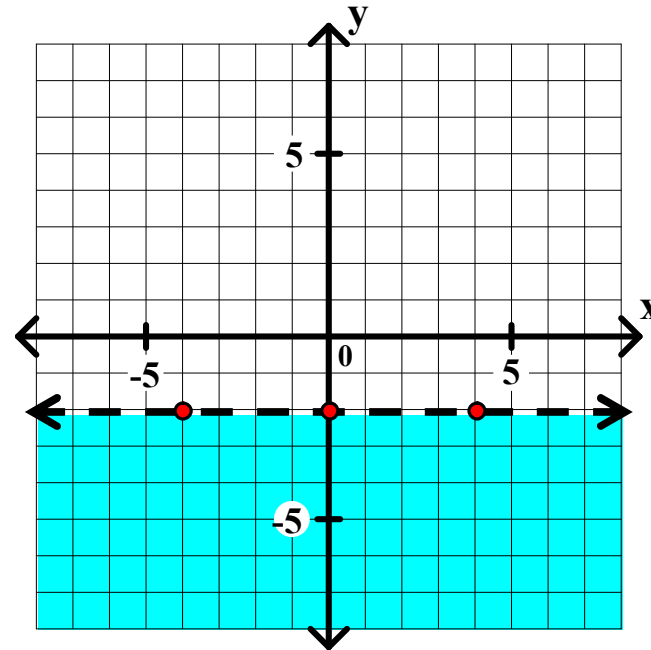
Graph each of the following.

1. $y < -2$

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The boundary line is a dashed line.

Shade below the line.



Step 1: Graph several points on the boundary line.

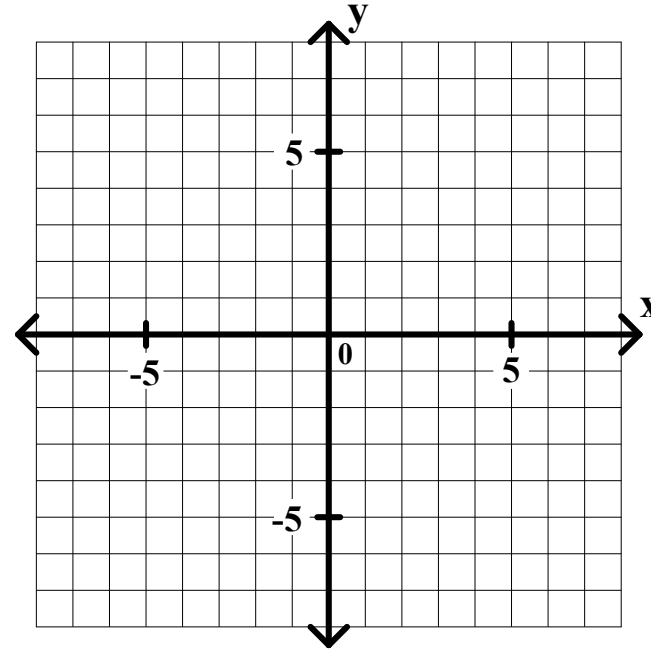
Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

2. $y \geq 4$



Step 1: Graph several points on the boundary line.

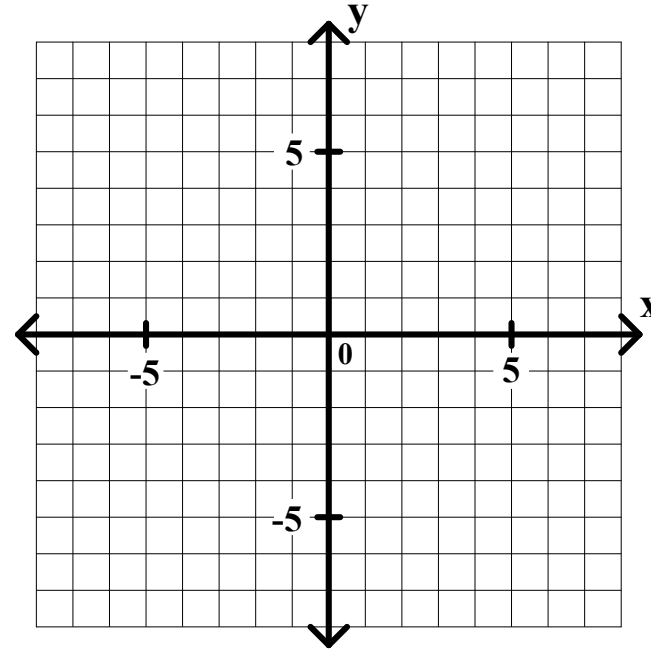
Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

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Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

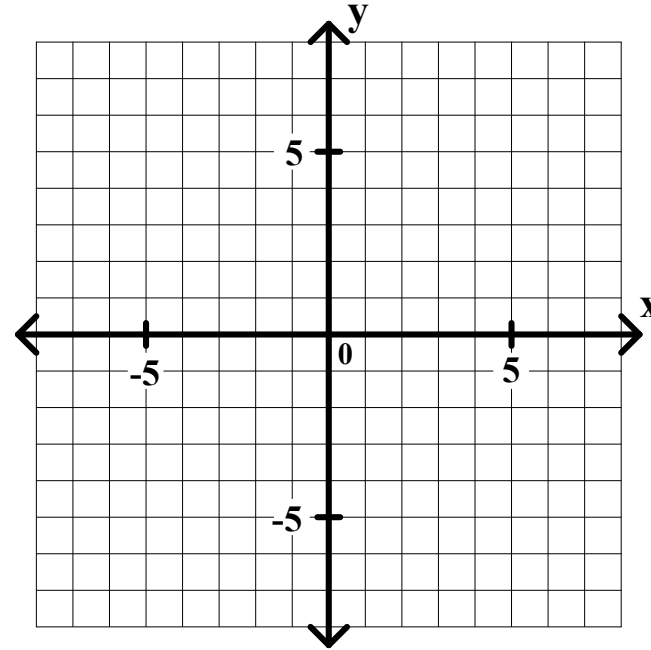
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

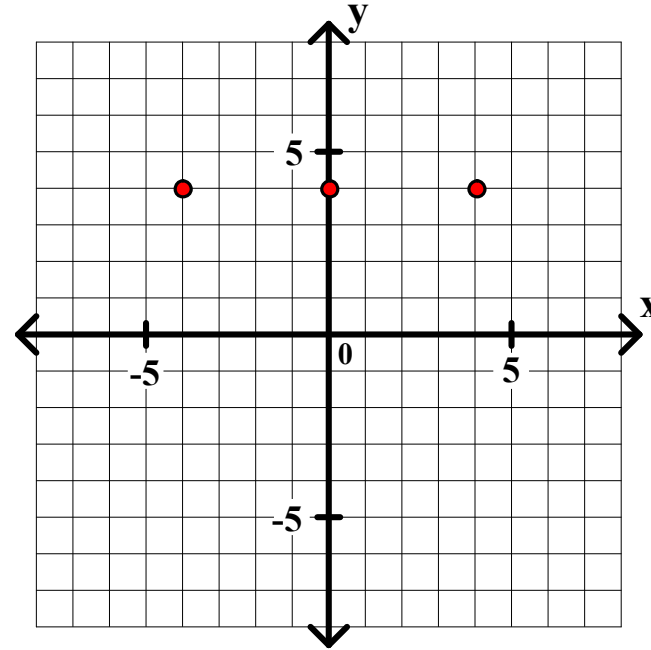
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

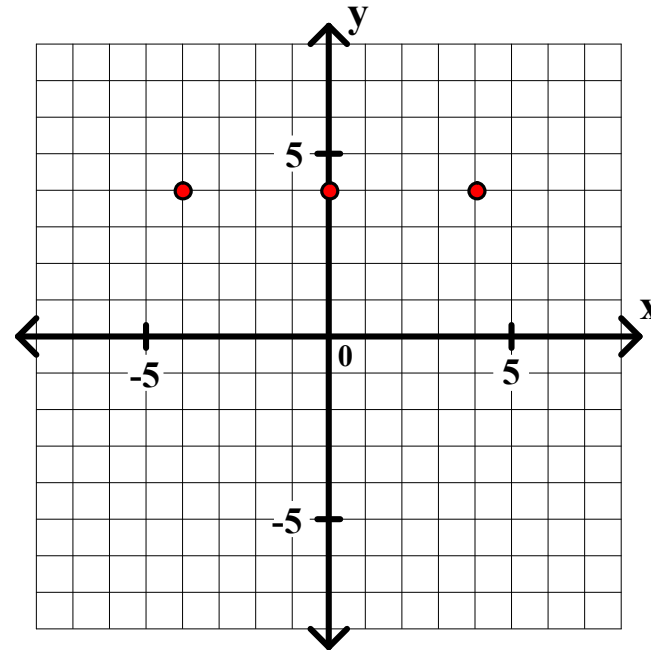
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Algebra I Class Worksheet #3 Unit 7

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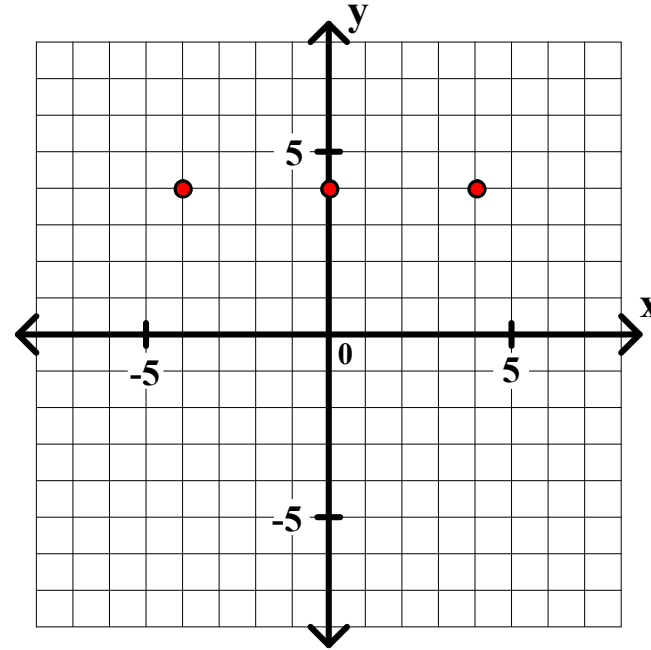
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

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The boundary line is the horizontal line $y = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

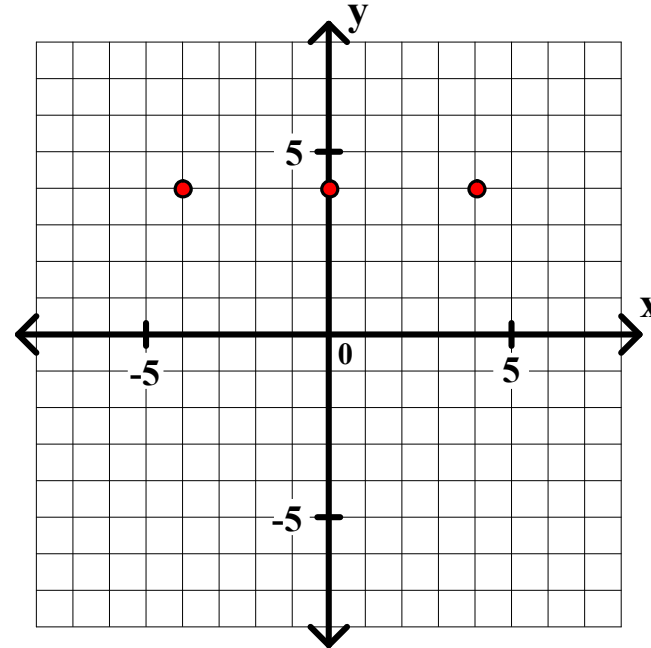
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.

The boundary line is a solid line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

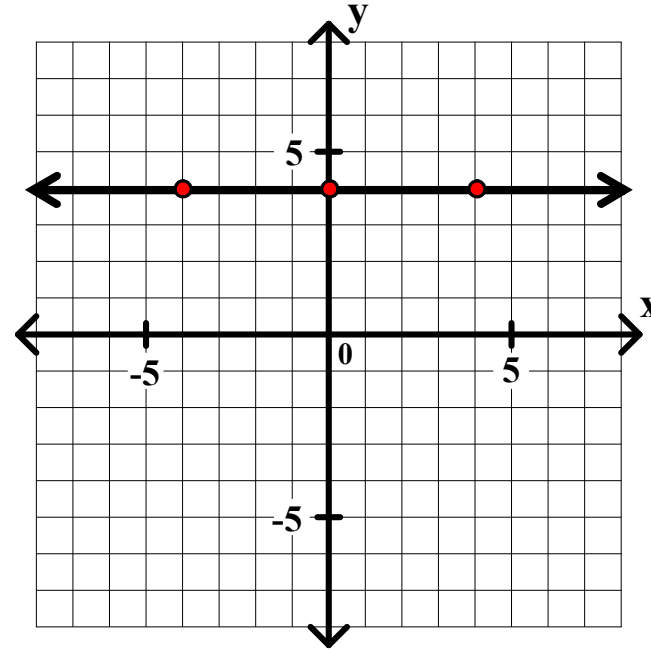
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.

The boundary line is a solid line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

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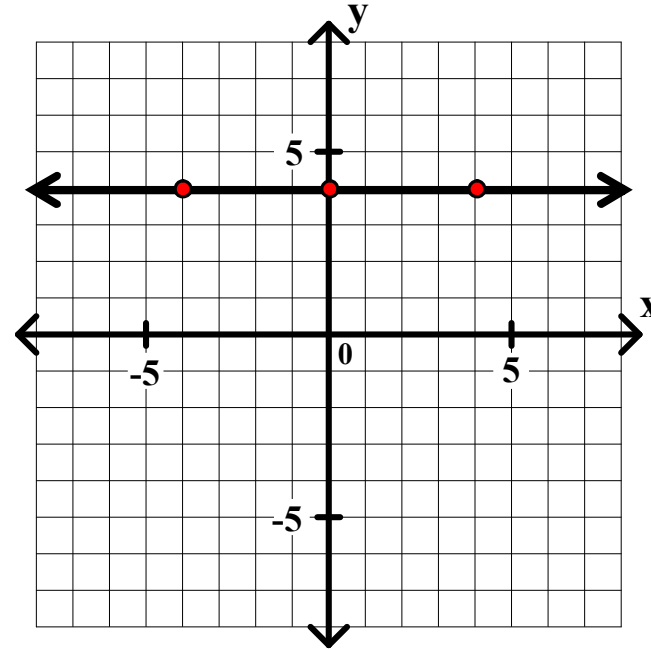
Algebra I Class Worksheet #3 Unit 7

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The boundary line is a solid line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

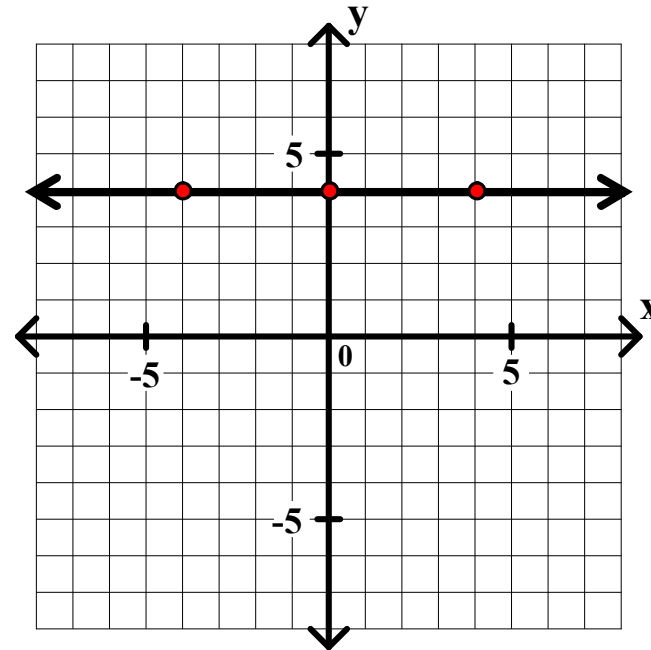
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.

The boundary line is a solid line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

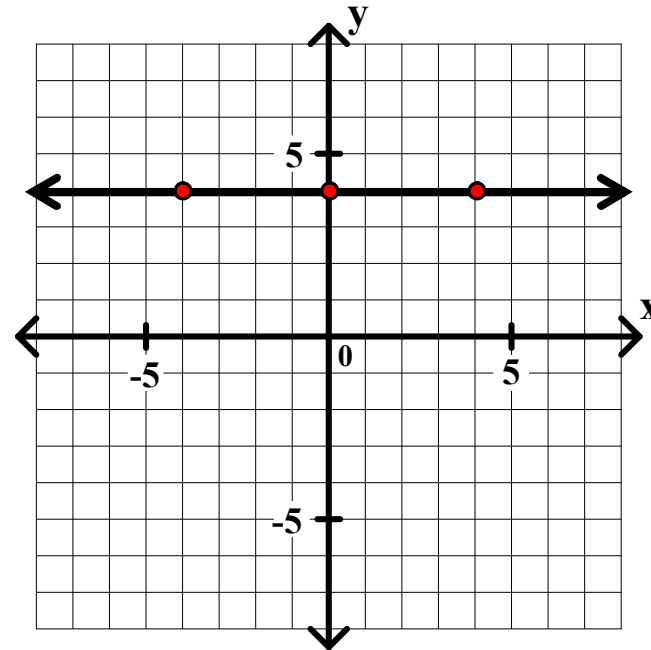
Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.

The boundary line is a solid line.

Shade above the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

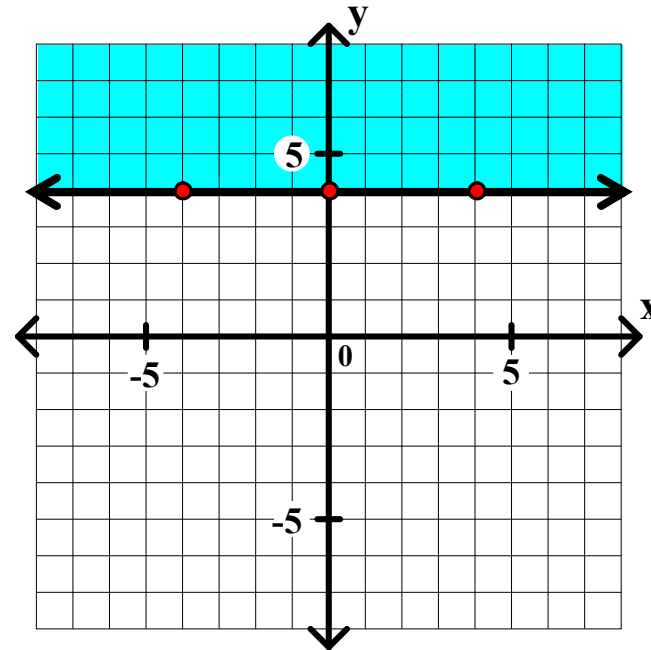
Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.

The boundary line is a solid line.

Shade above the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

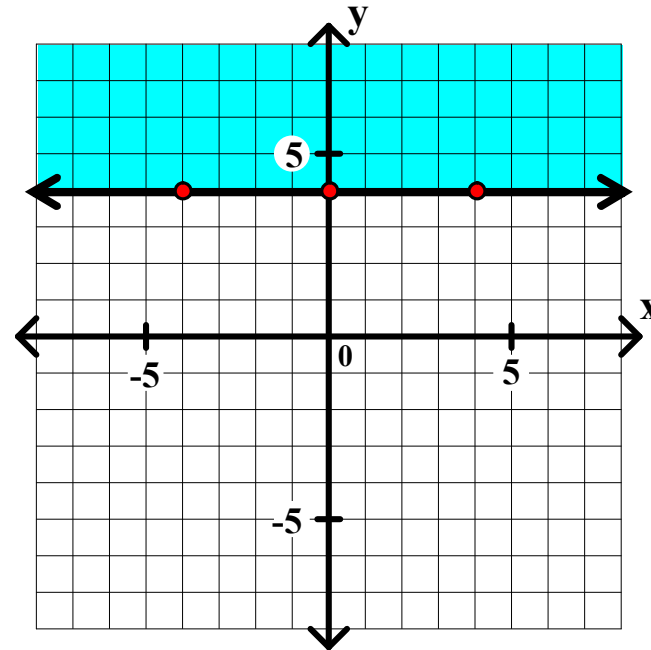
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Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

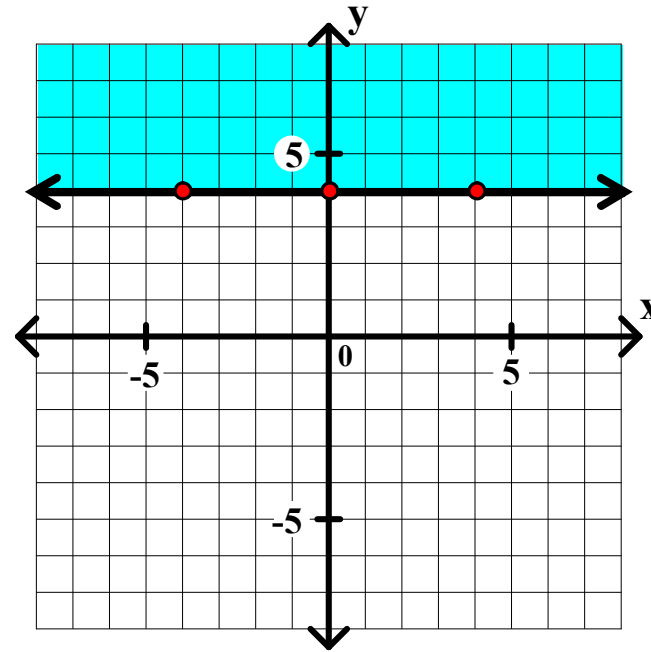
Graph each of the following.

2. $y \geq 4$

The boundary line is the horizontal line $y = 4$.

The boundary line is a solid line.

Shade above the line.



Every point in the graphed region has a y-coordinate greater than or equal to 4 !!

Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

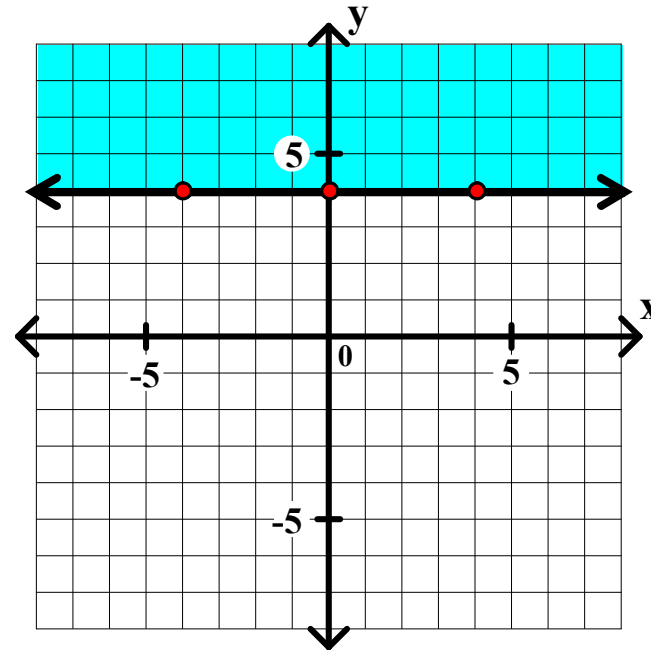
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Shade above the line.



Every point in the graphed region has a y-coordinate greater than or equal to 4 !! Right?

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Algebra I Class Worksheet #3 Unit 7

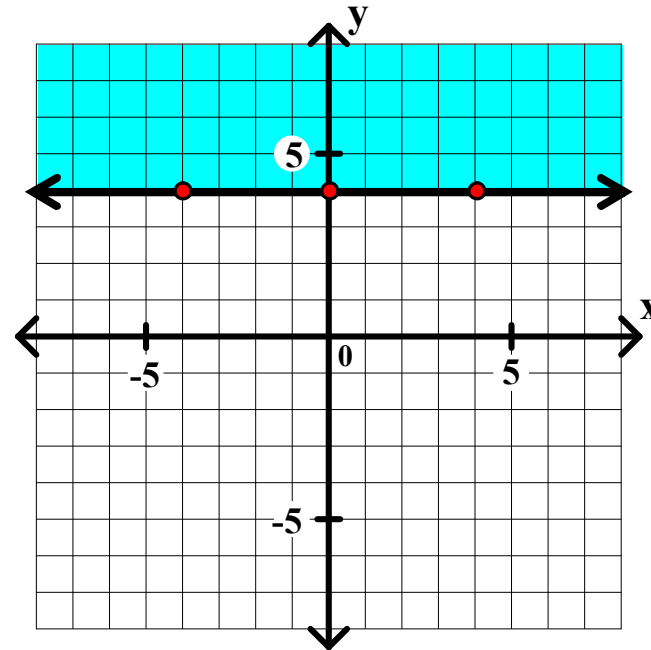
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The boundary line is a solid line.

Shade above the line.



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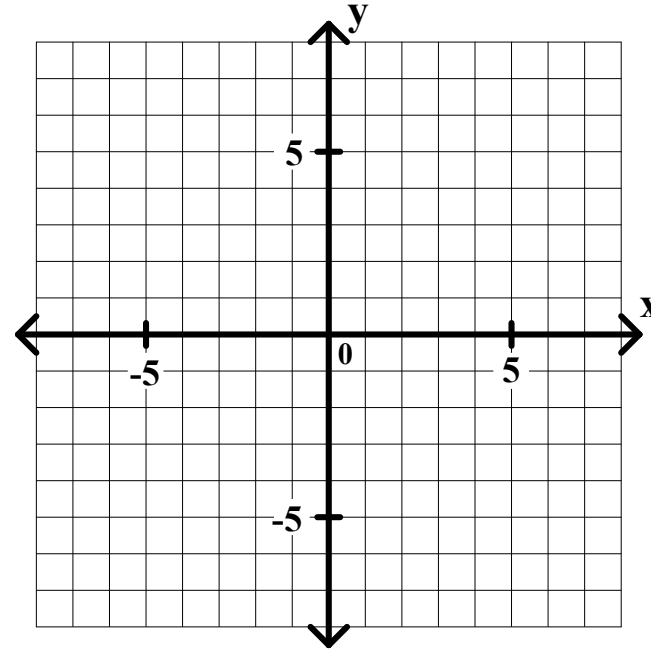
Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

3. $x < 4$



Step 1: Graph several points on the boundary line.

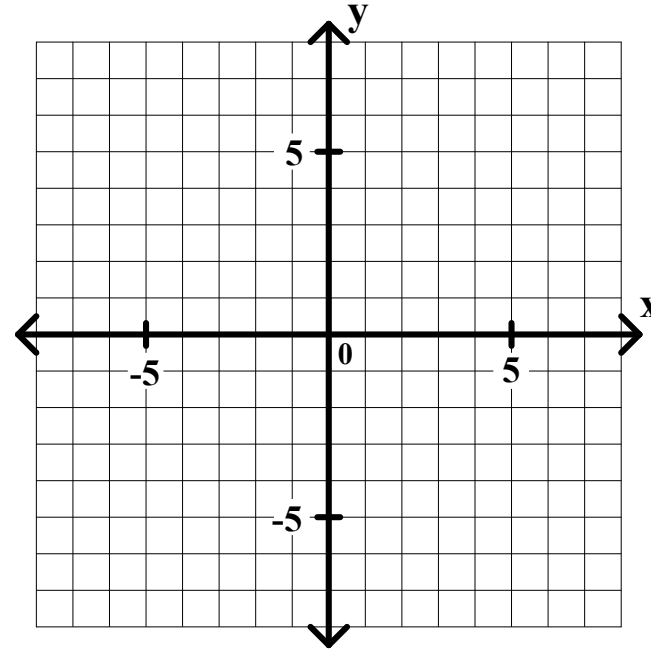
Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

3. $x < 4$



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

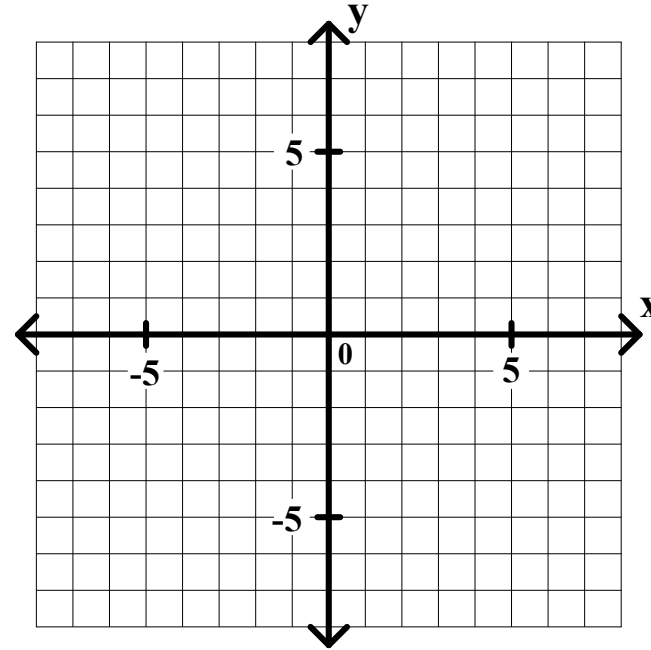
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

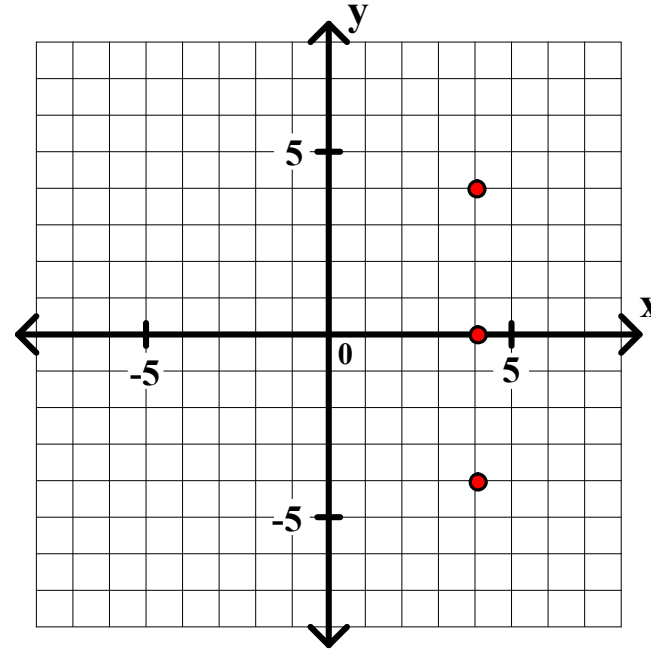
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

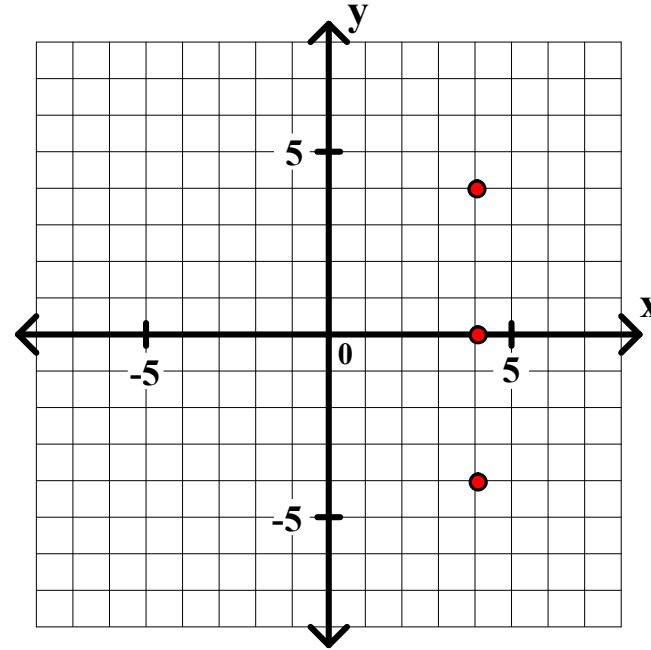
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Algebra I Class Worksheet #3 Unit 7

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3. $x < 4$

The boundary line is the vertical line $x = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

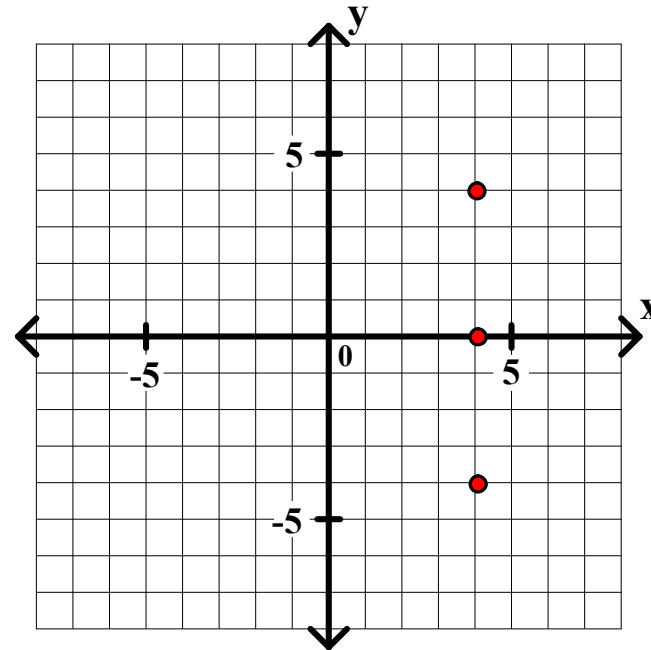
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Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

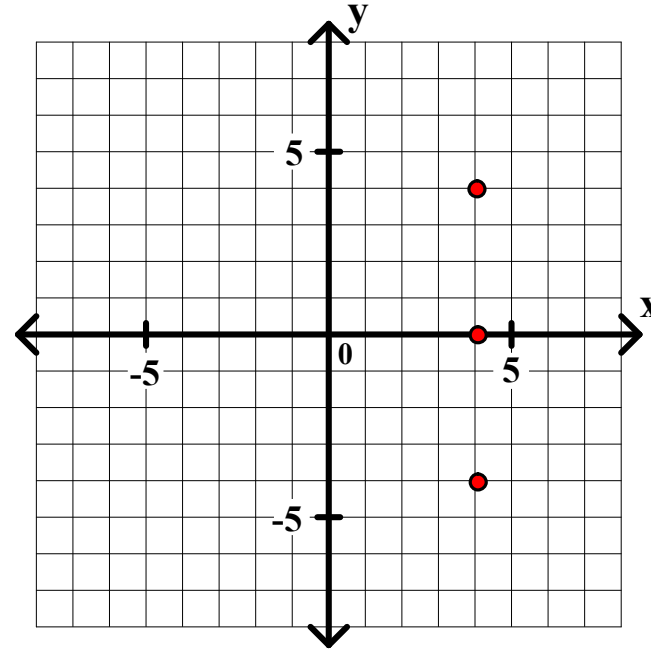
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

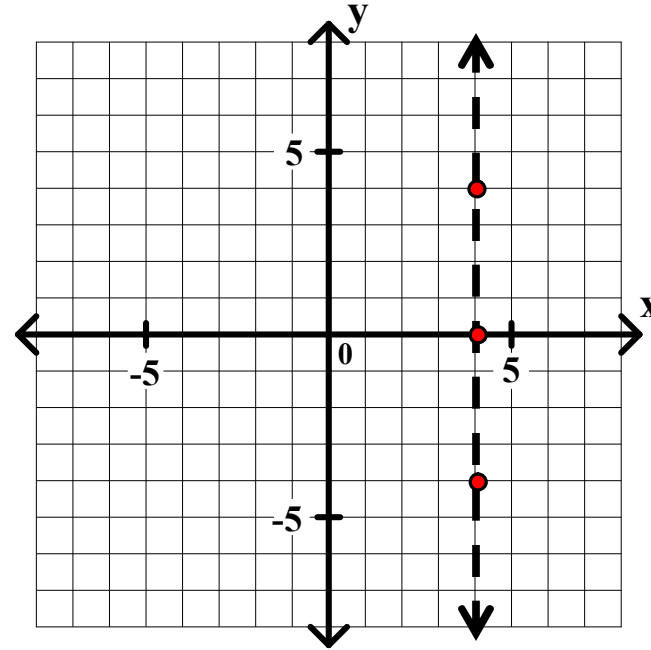
Algebra I Class Worksheet #3 Unit 7

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The boundary line is a dashed line.



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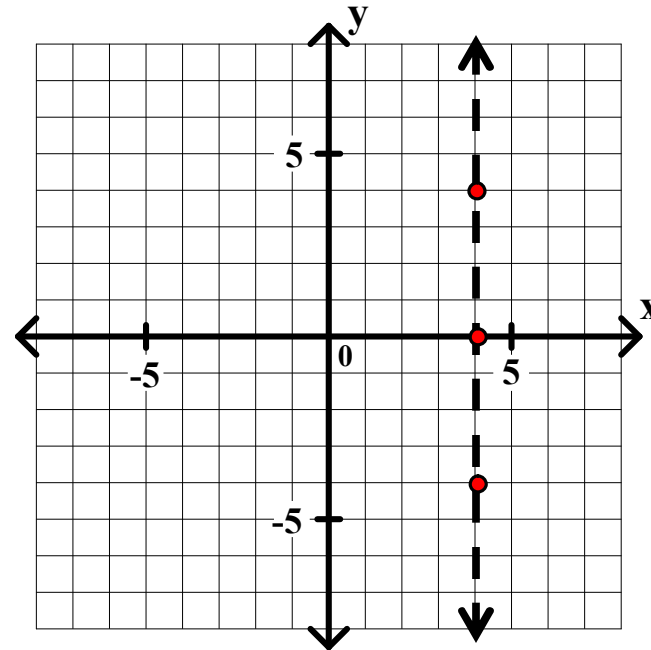
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

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The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

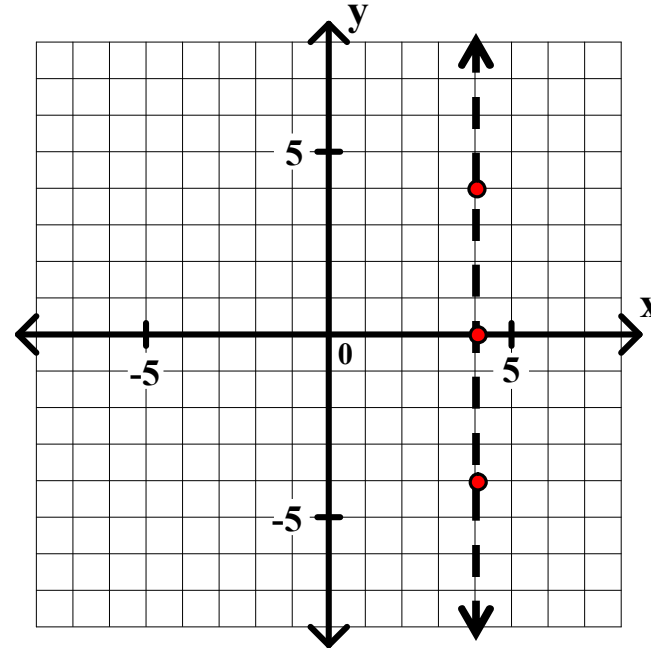
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

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The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

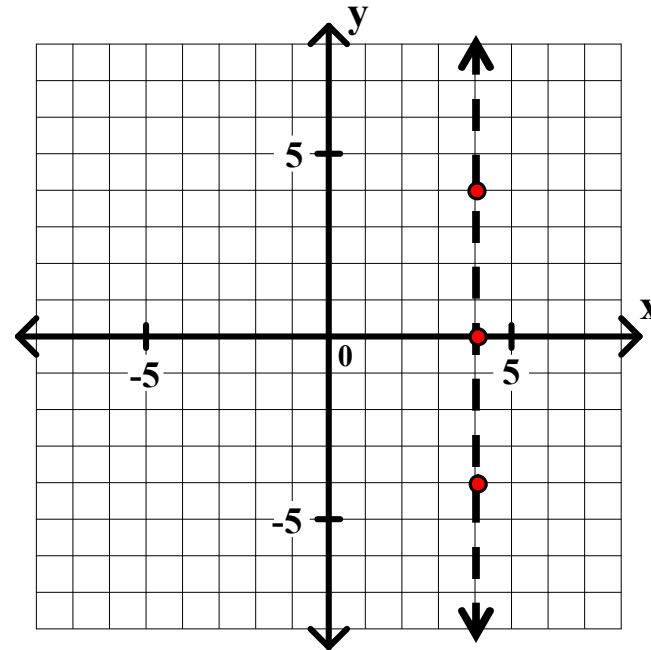
Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.

Shade to the left of the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

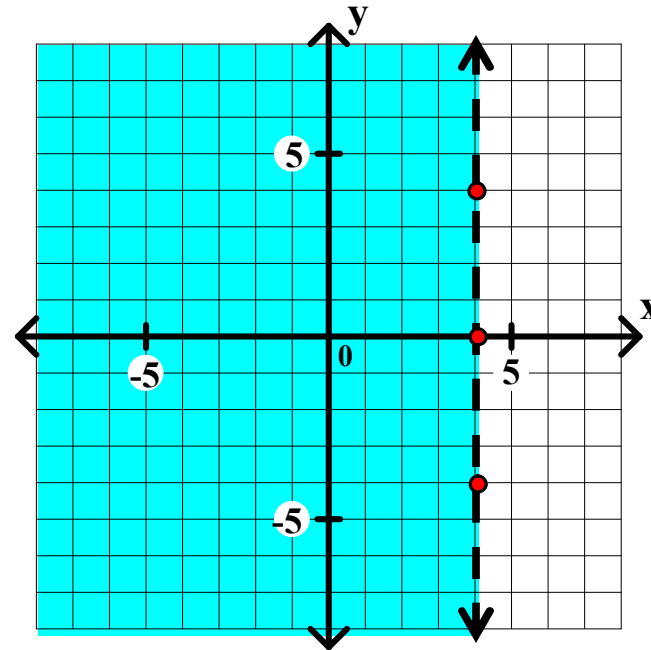
Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.

Shade to the left of the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

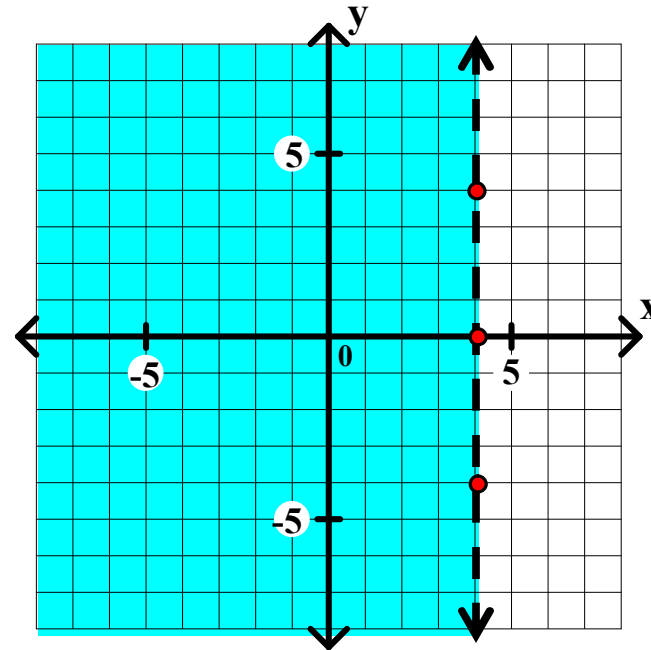
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Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

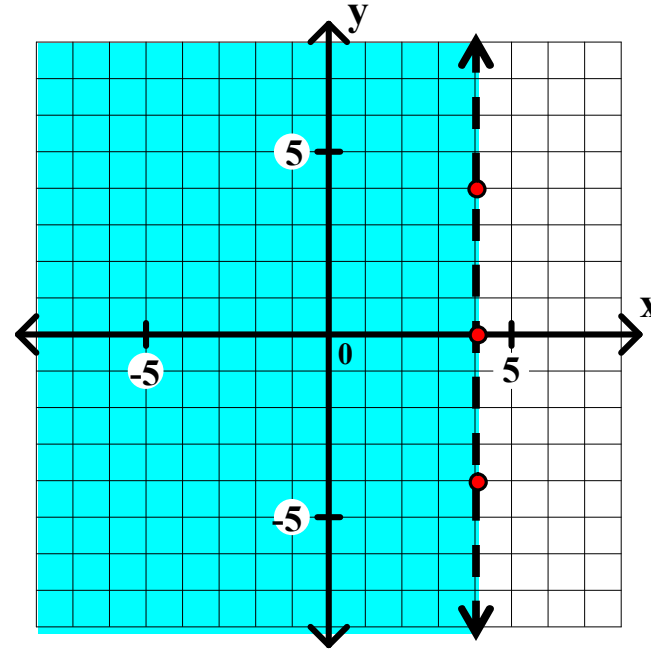
Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.

Shade to the left of the line.



Every point in the graphed region has an x-coordinate less than 4 !!

Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

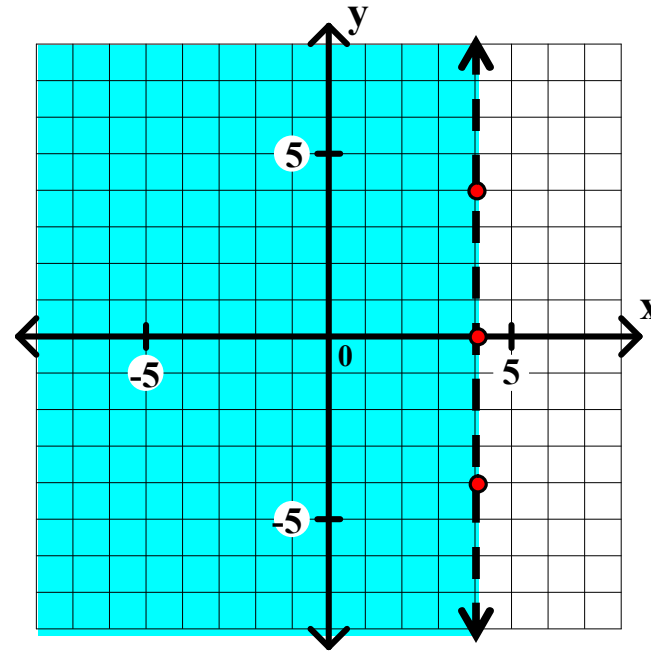
Graph each of the following.

3. $x < 4$

The boundary line is the vertical line $x = 4$.

The boundary line is a dashed line.

Shade to the left of the line.



Every point in the graphed region has an x-coordinate less than 4 !! Right?

Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

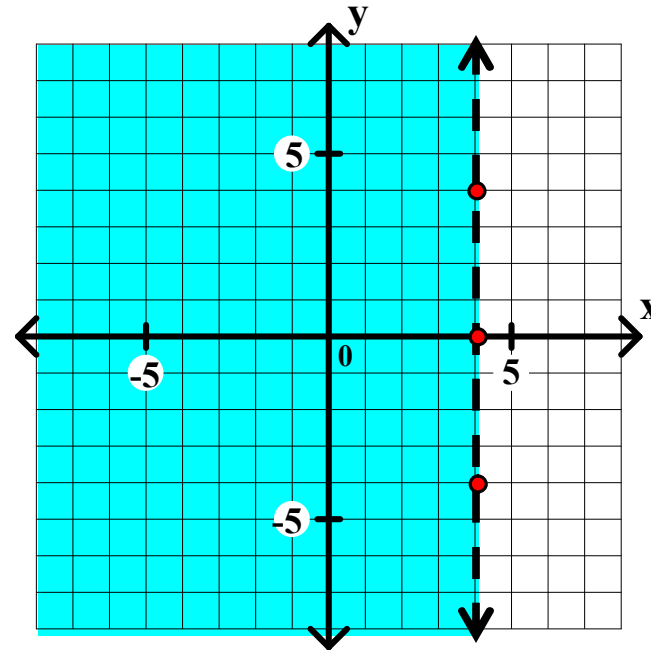
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Shade to the left of the line.



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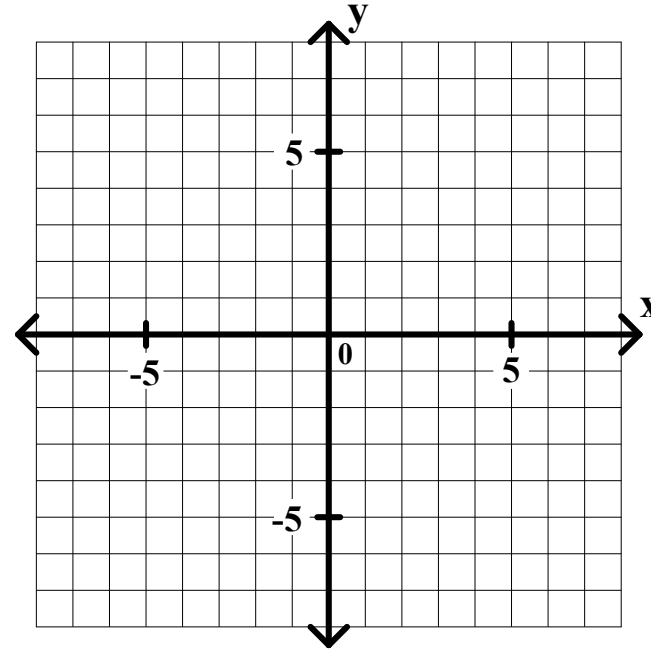
Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

4. $x \geq -2$



Step 1: Graph several points on the boundary line.

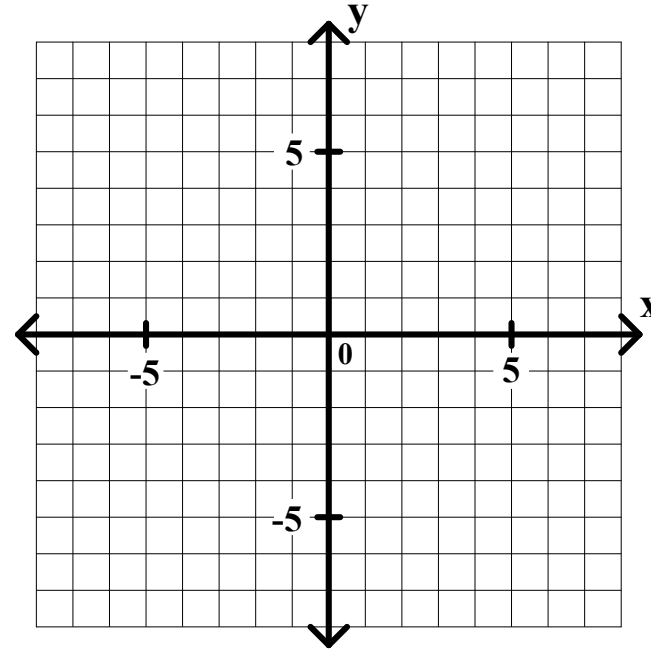
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Algebra I Class Worksheet #3 Unit 7

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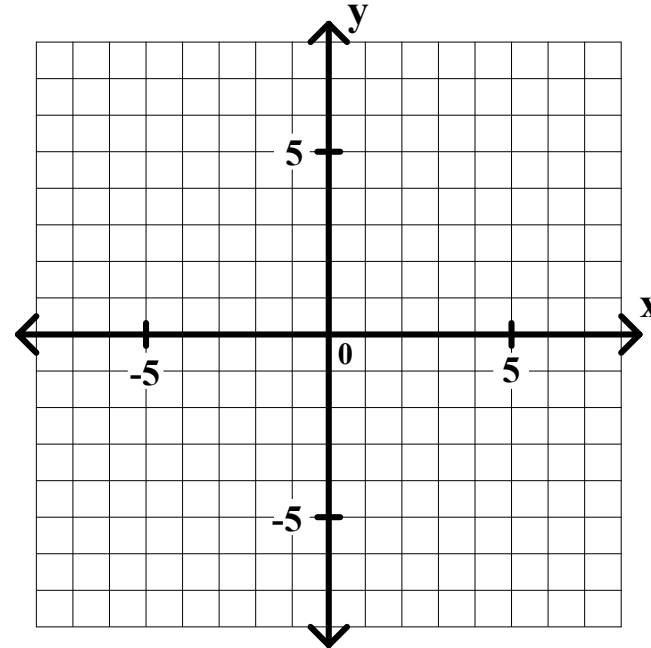
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

4. $x \geq -2$

The boundary line is the vertical line $x = -2$.



Step 1: Graph several points on the boundary line.

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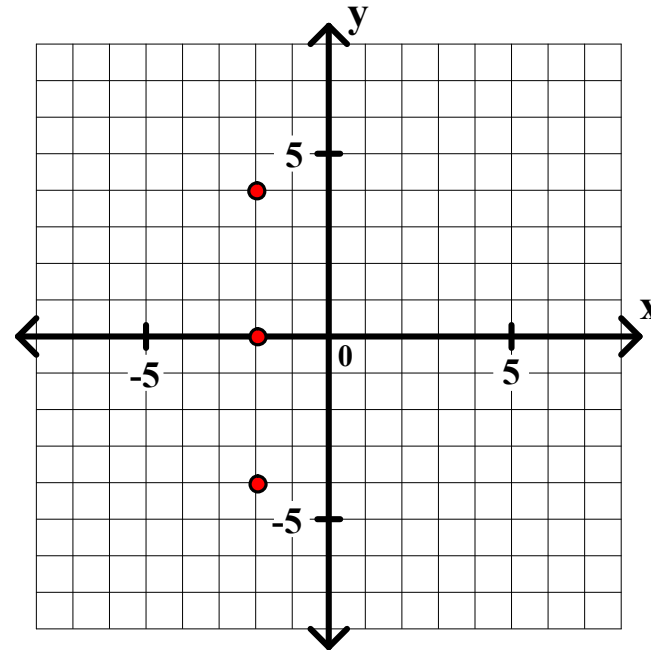
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

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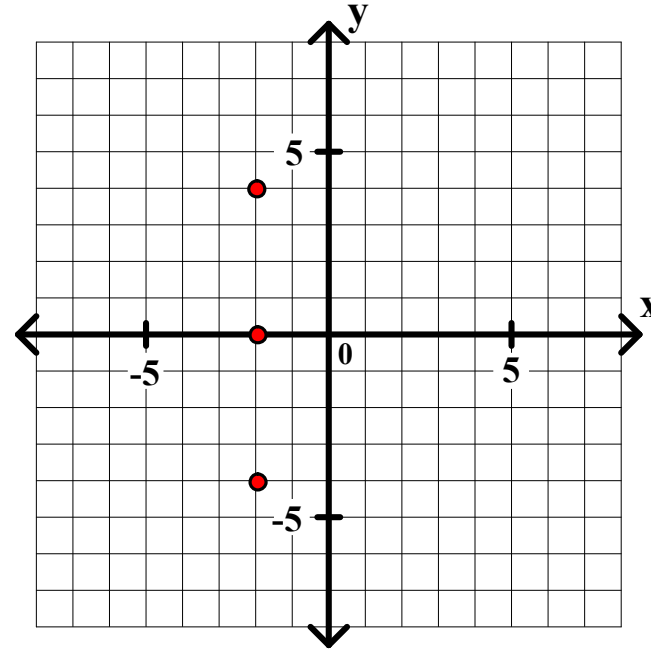
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

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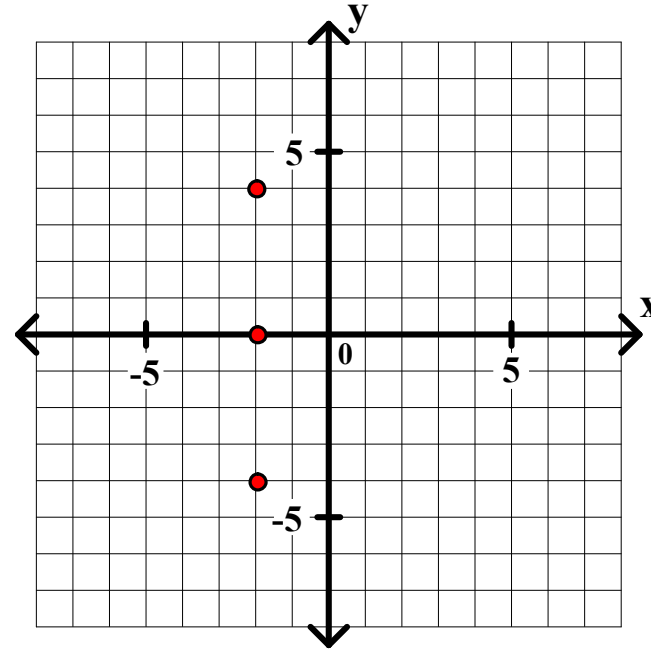
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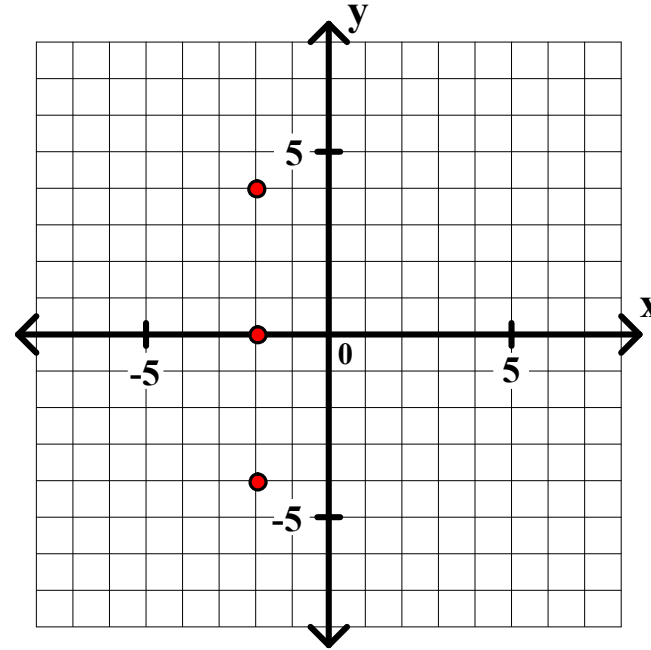
Algebra I Class Worksheet #3 Unit 7

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The boundary line is a solid line.



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Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

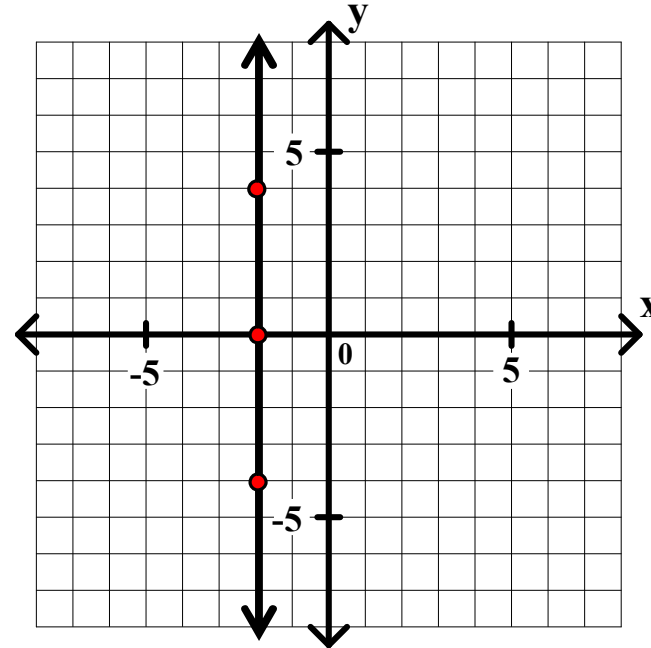
Algebra I Class Worksheet #3 Unit 7

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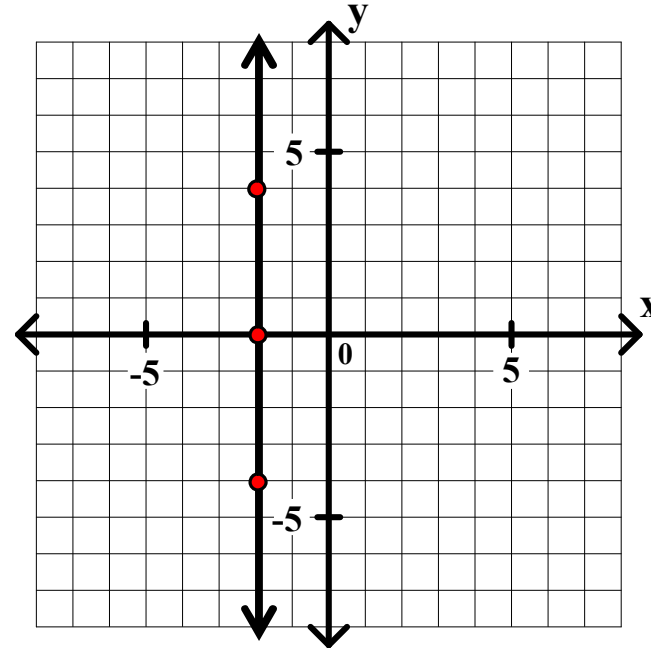
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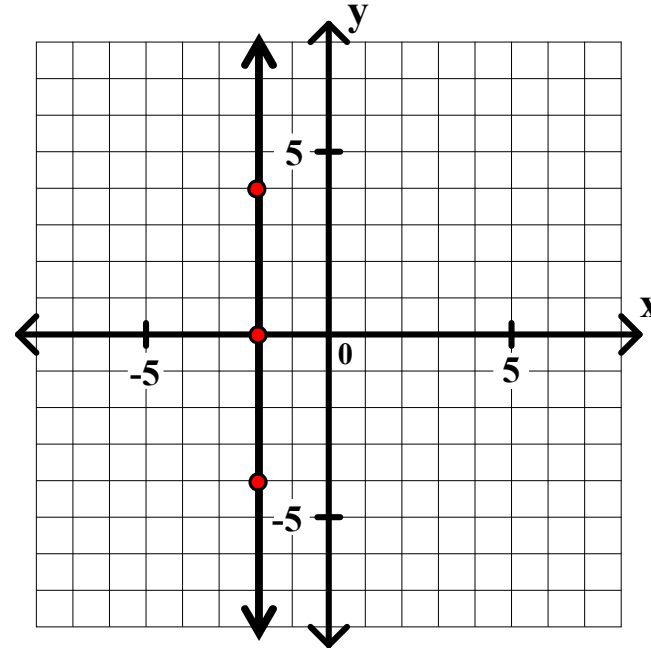
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Algebra I Class Worksheet #3 Unit 7

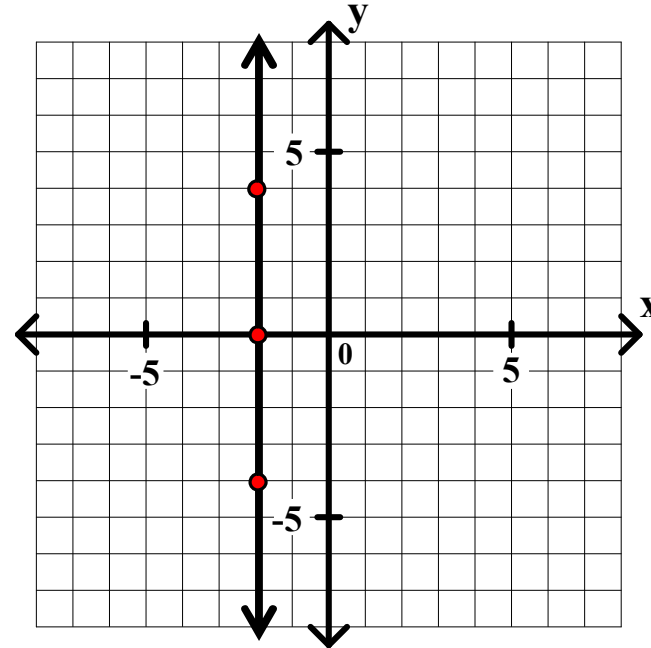
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Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

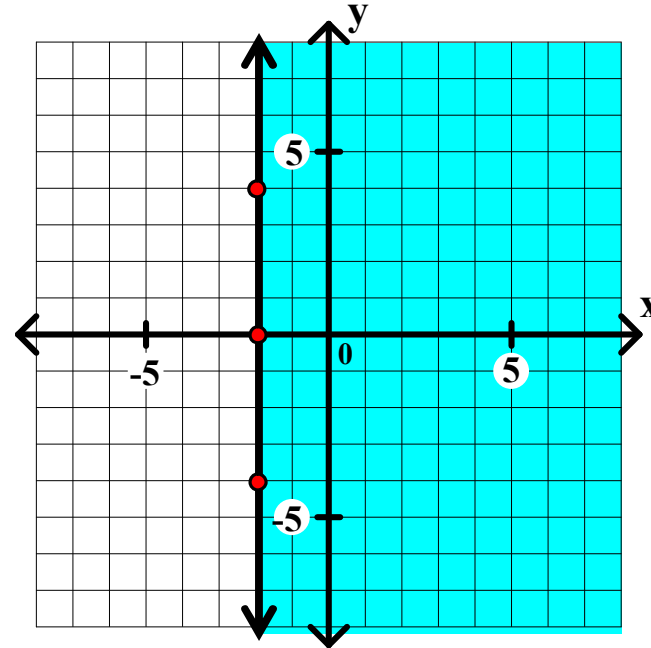
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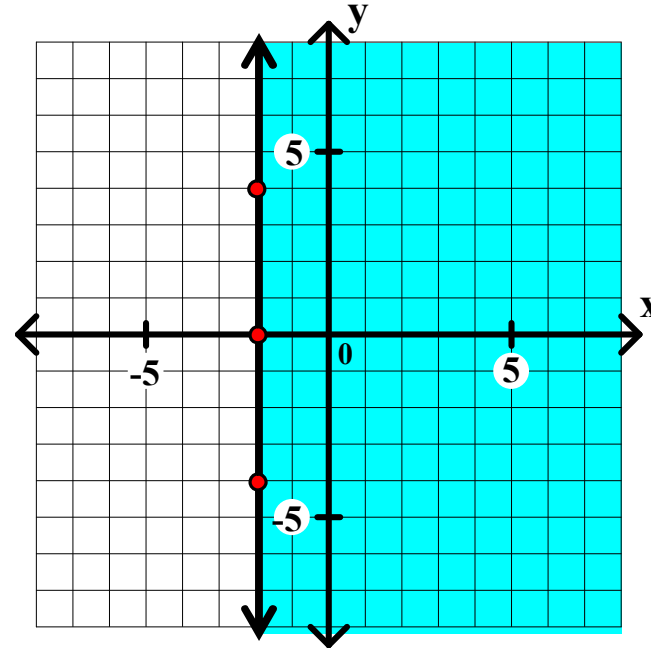
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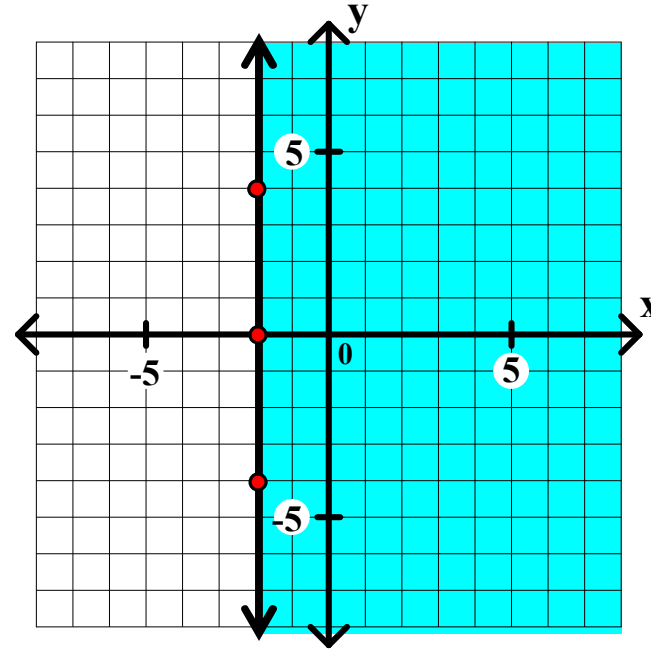
Graph each of the following.

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The boundary line is the vertical line $x = -2$.

The boundary line is a solid line.

Shade to the right of the line.



Every point in the graphed region has an x-coordinate greater than or equal to -2 !!

Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

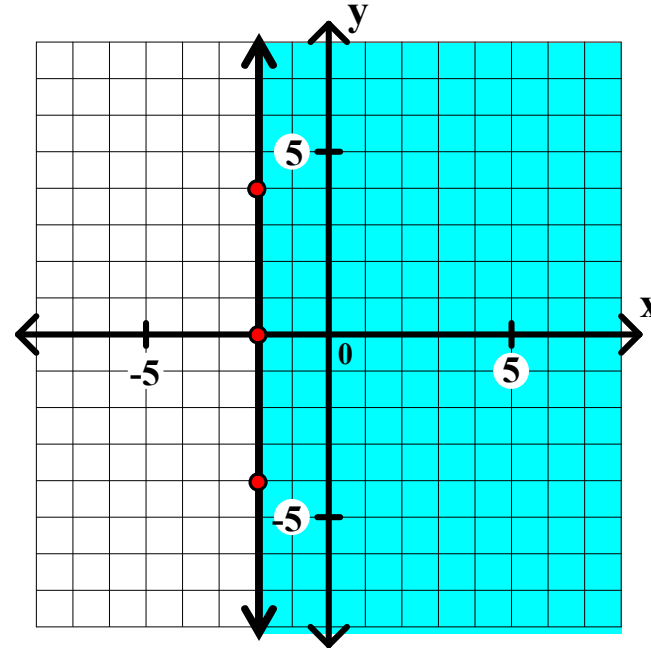
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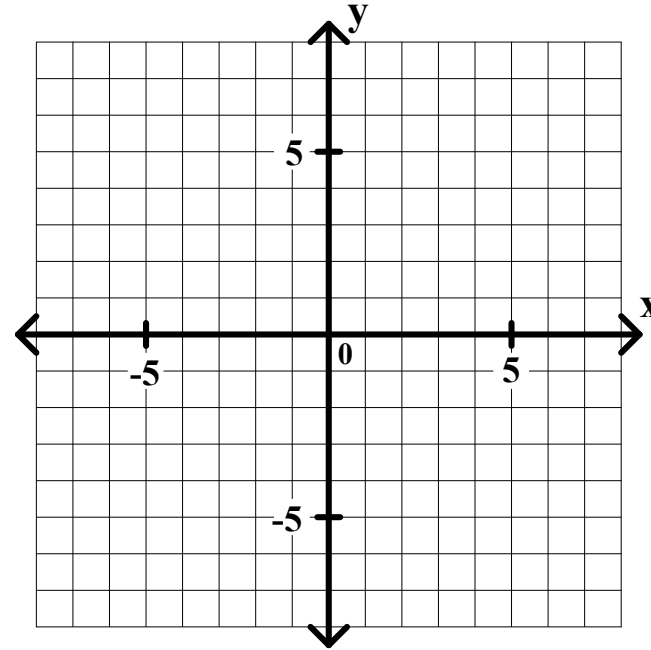
Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

5. $y > x + 1$



Step 1: Graph several points on the boundary line.

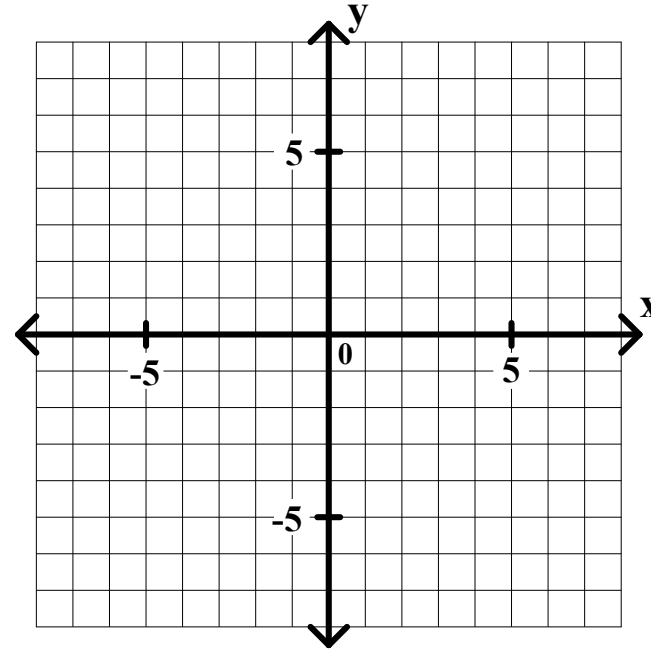
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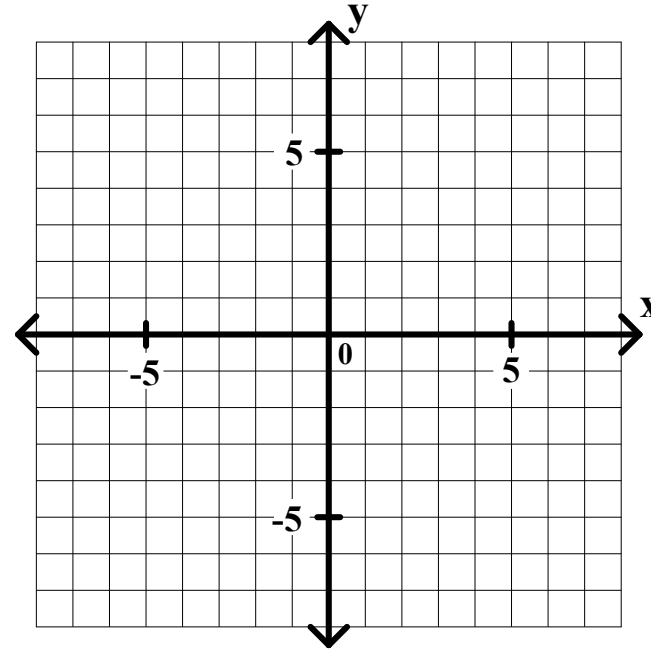
Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

5. $y > x + 1$

The boundary line is the oblique line $y = x + 1$.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

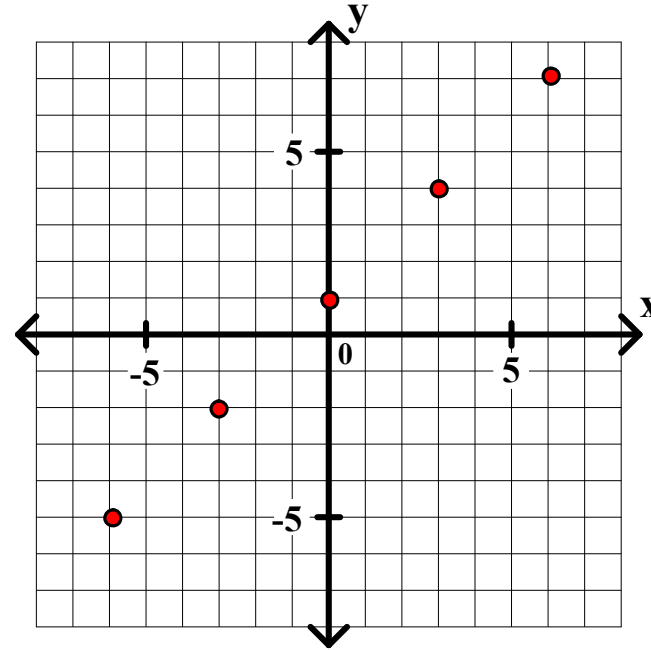
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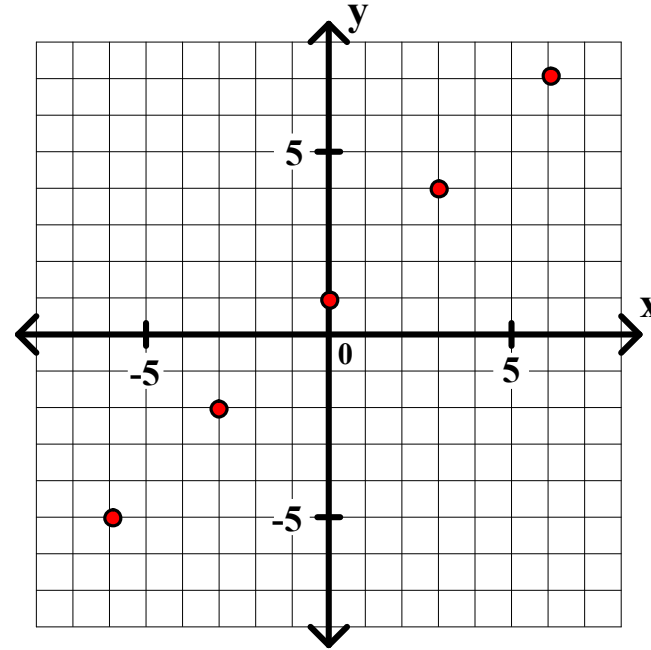
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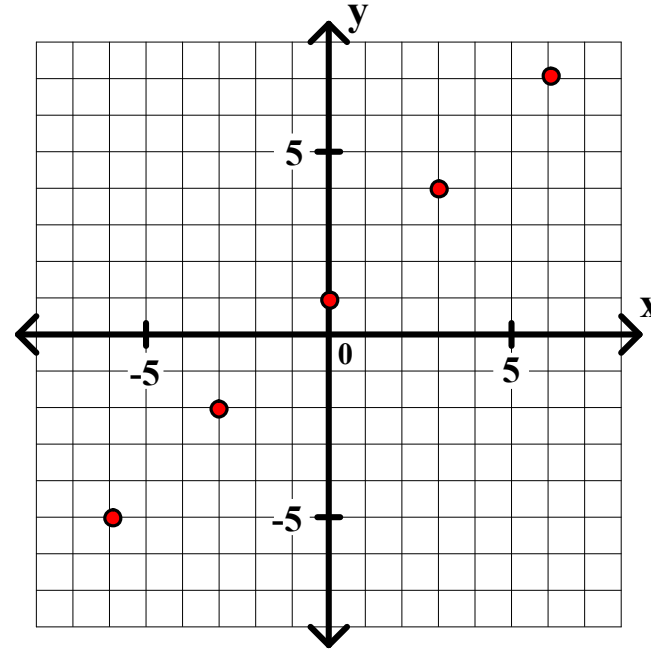
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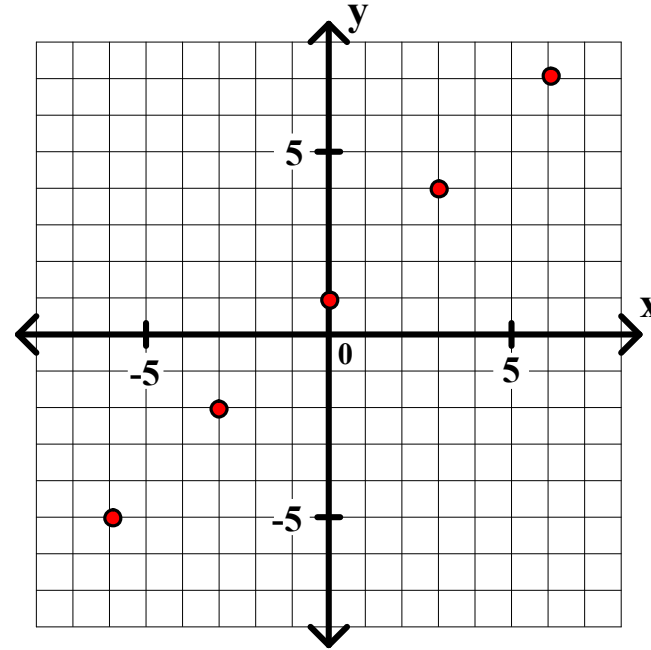
Algebra I Class Worksheet #3 Unit 7

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5. $y > x + 1$

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The boundary line is a dashed line.



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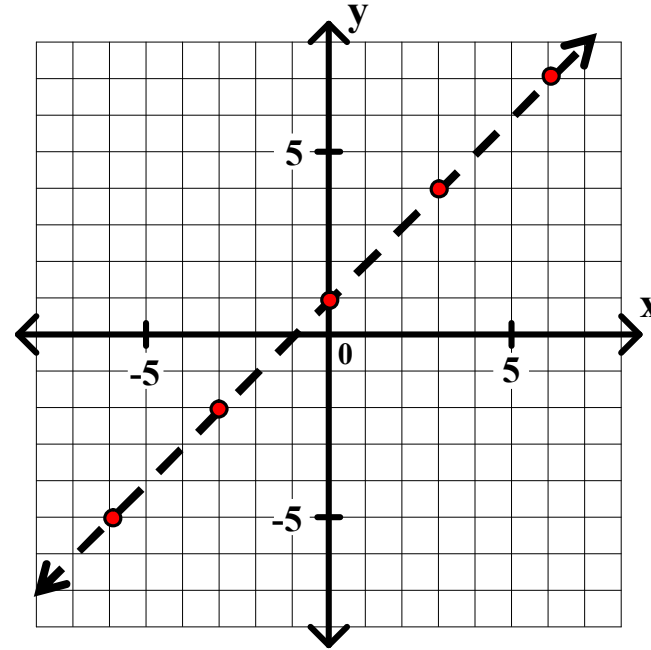
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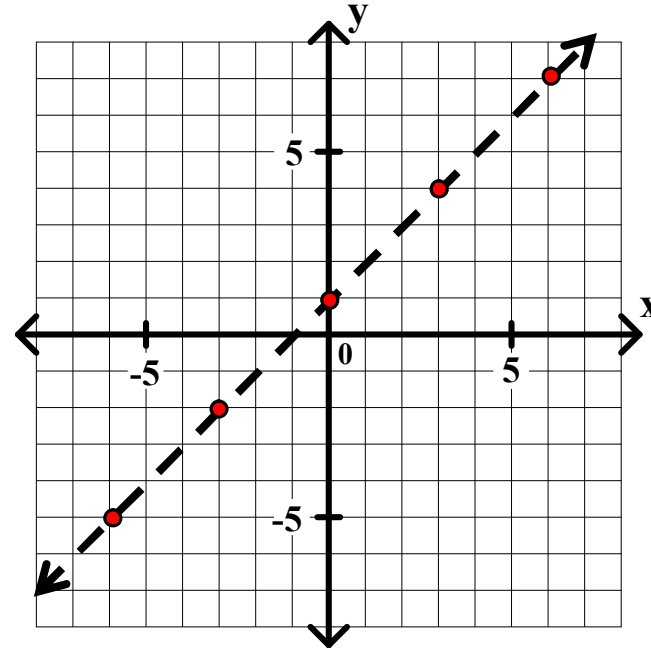
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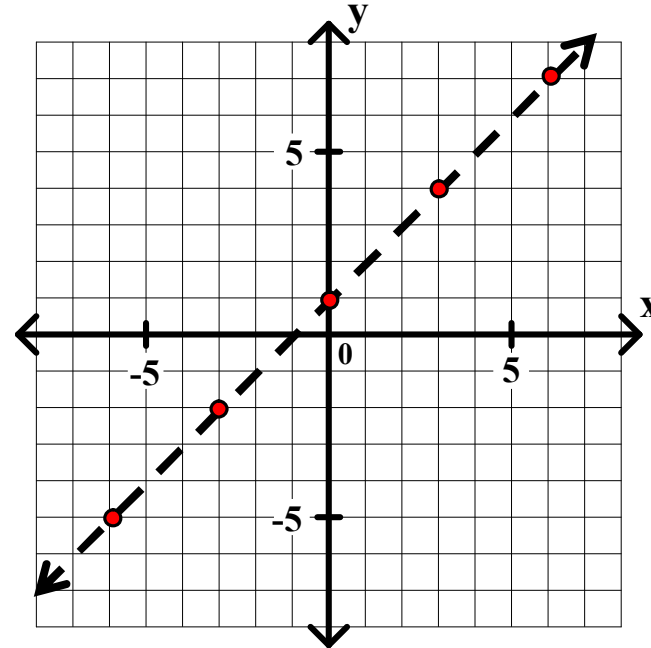
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Algebra I Class Worksheet #3 Unit 7

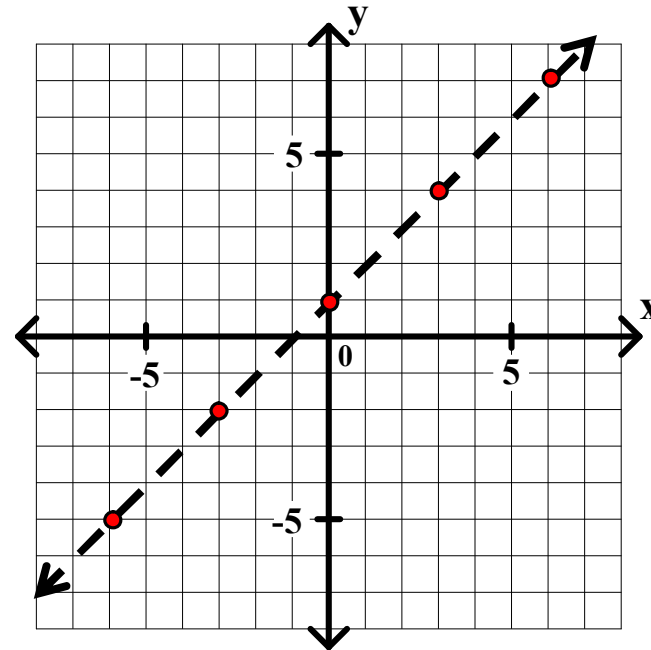
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Shade above the line.



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Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

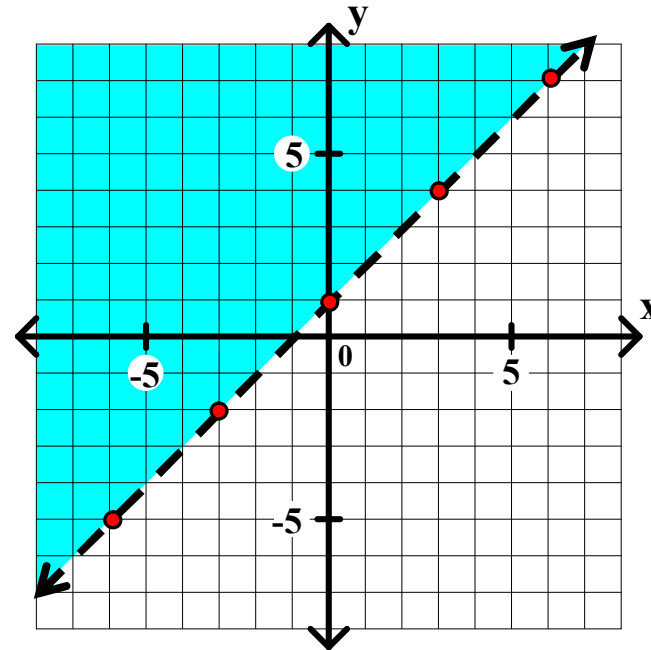
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Algebra I Class Worksheet #3 Unit 7

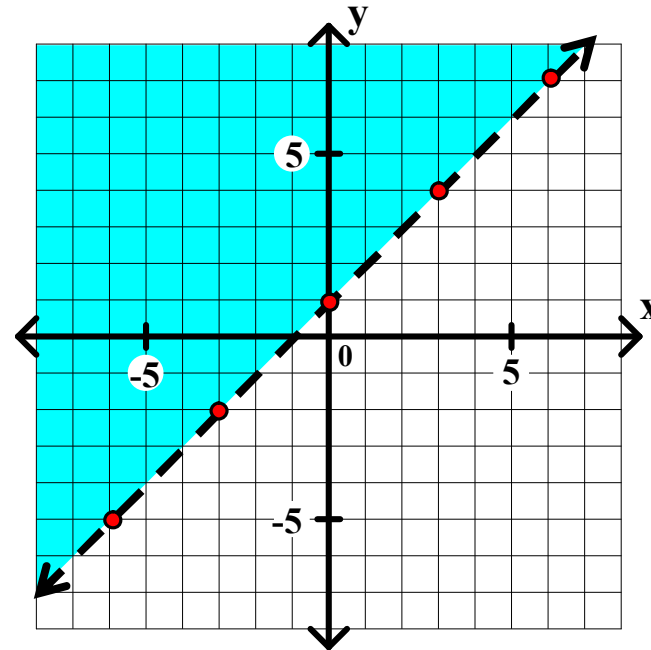
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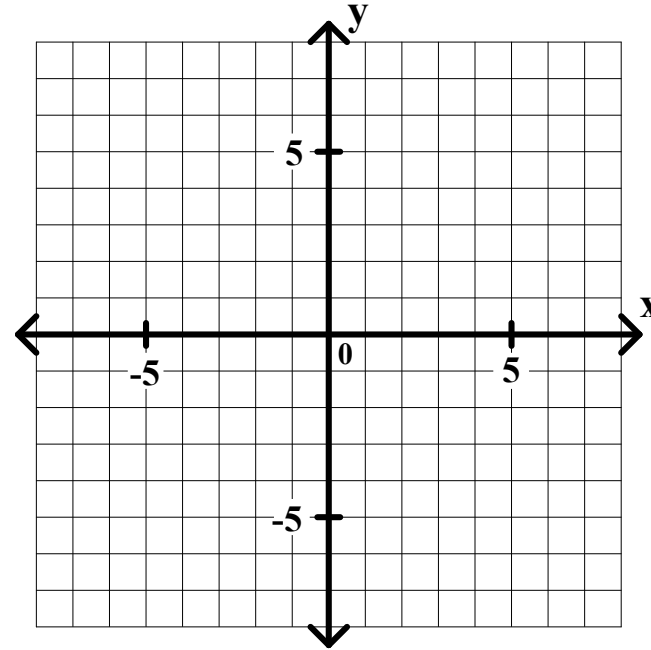
Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

6. $y \leq 2x - 1$



Step 1: Graph several points on the boundary line.

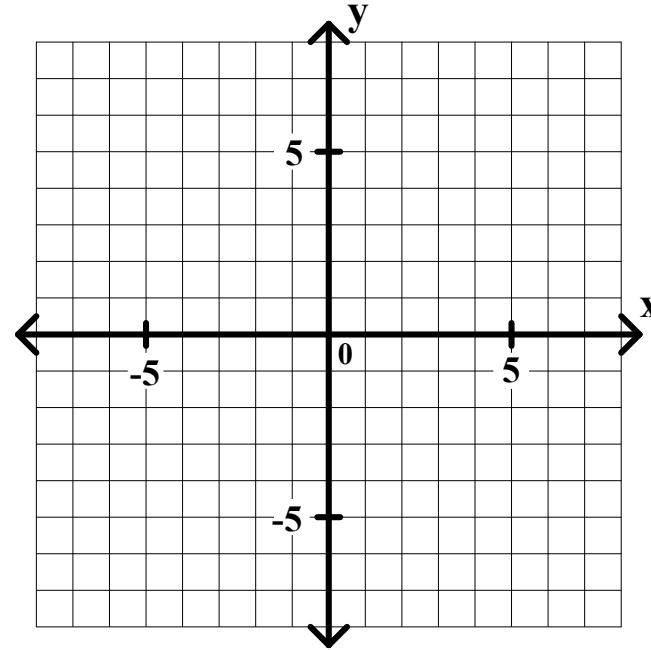
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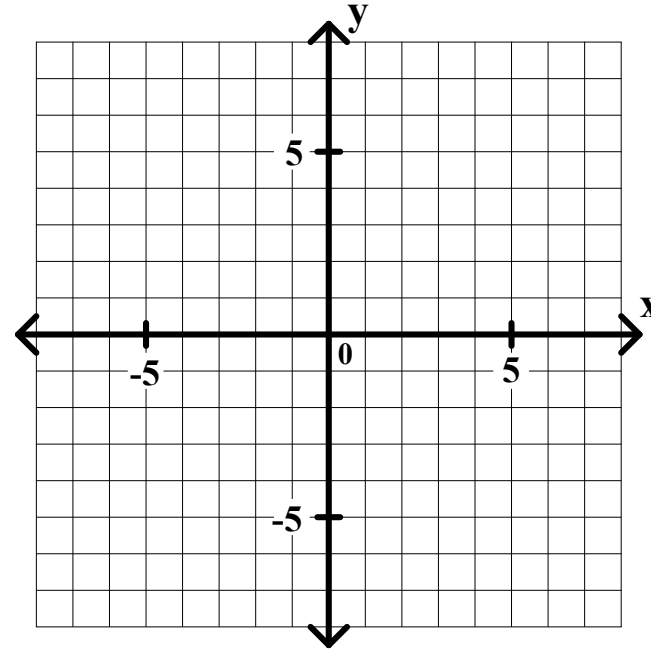
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Algebra I Class Worksheet #3 Unit 7

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The boundary line is the oblique line $y = 2x - 1$.



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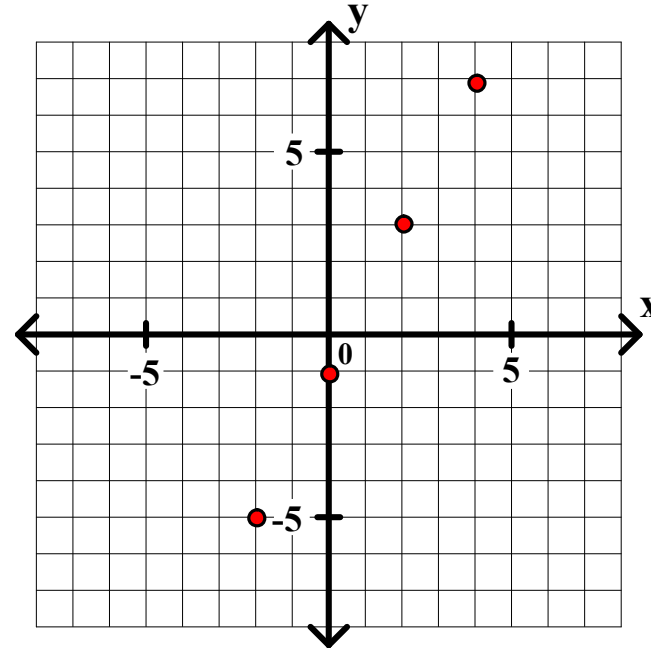
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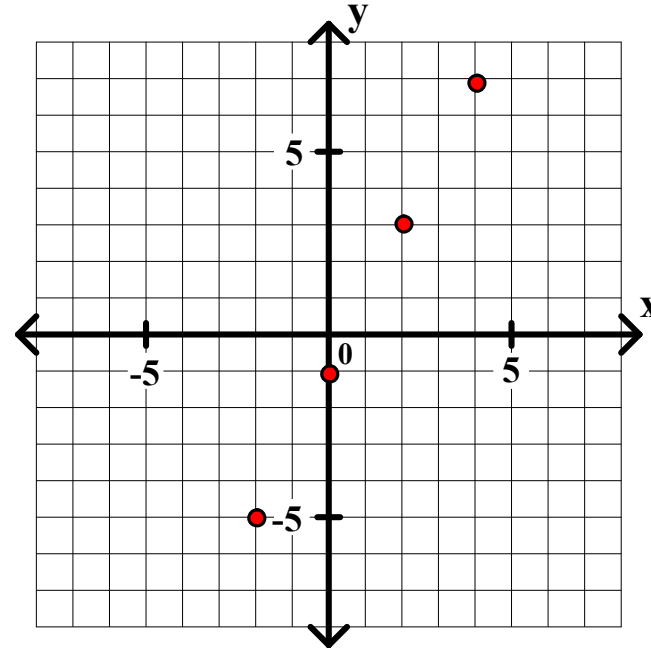
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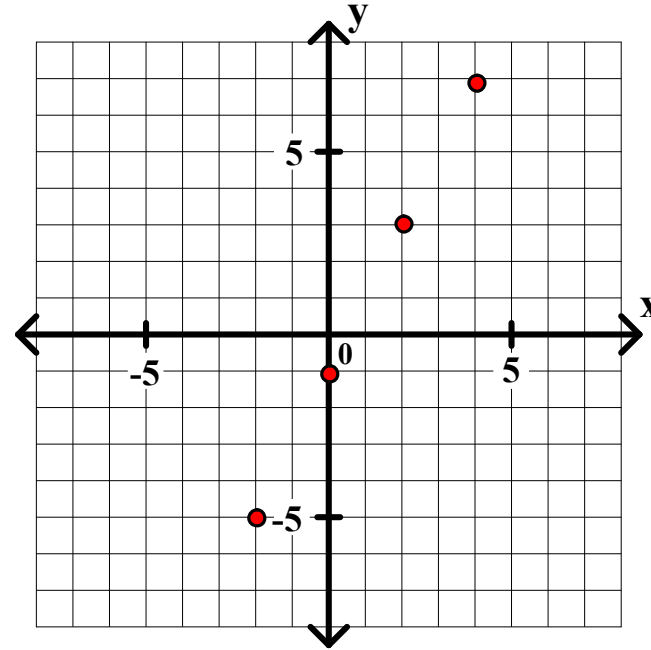
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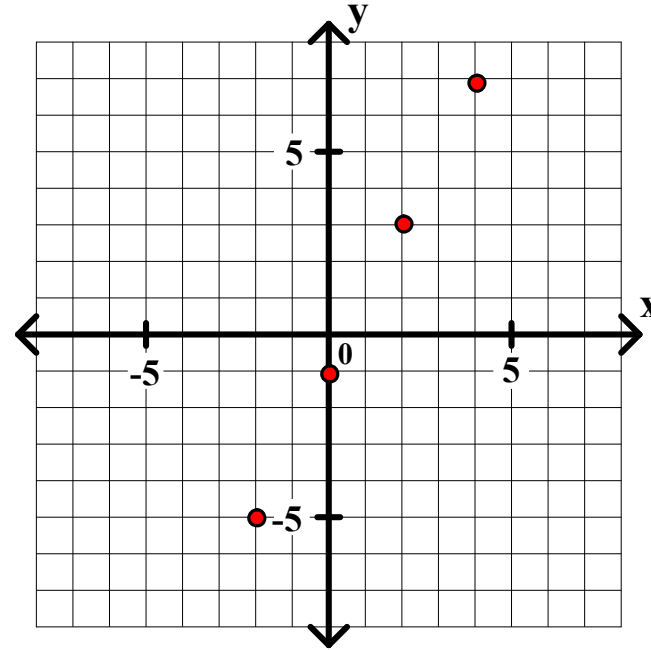
Algebra I Class Worksheet #3 Unit 7

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The boundary line is a solid line.



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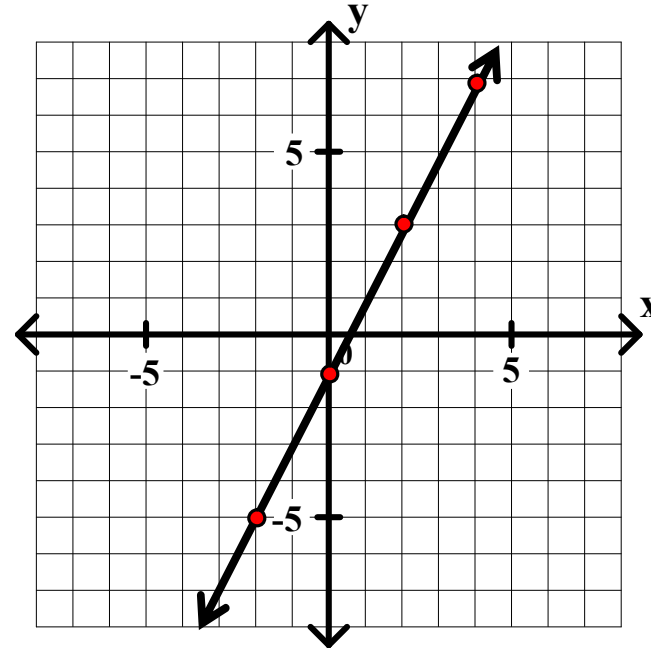
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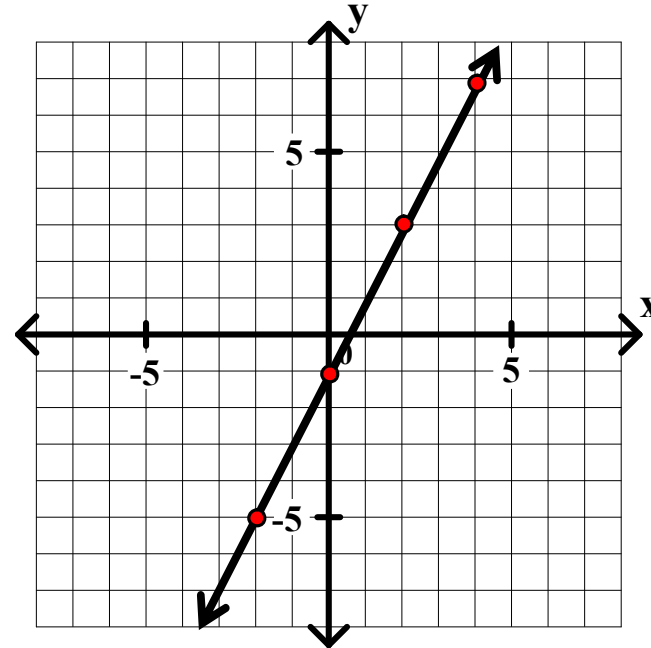
Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

6. $y \leq 2x - 1$

The boundary line is the oblique line $y = 2x - 1$.

The boundary line is a solid line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

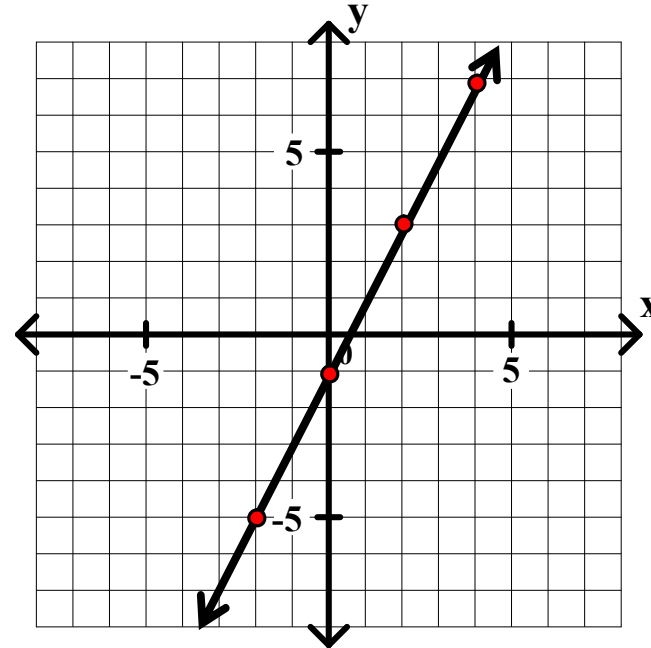
Algebra I Class Worksheet #3 Unit 7

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Step 1: Graph several points on the boundary line.

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Algebra I Class Worksheet #3 Unit 7

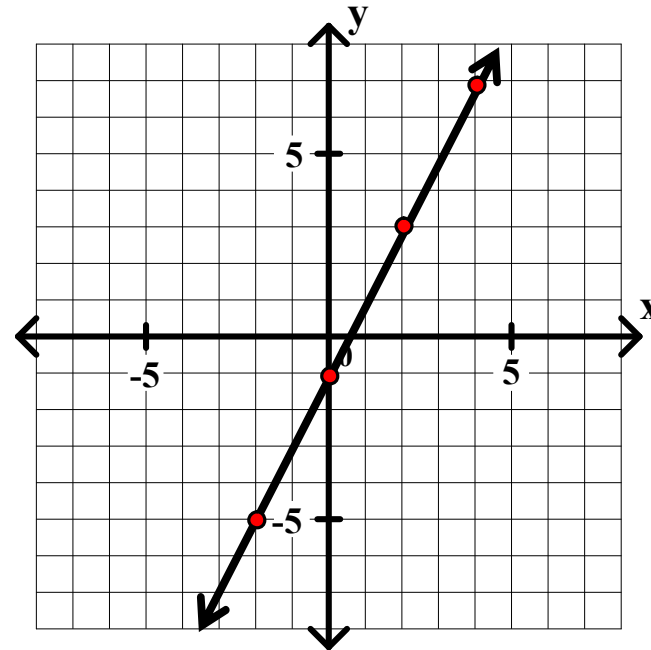
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The boundary line is a solid line.

Shade below the line.



Step 1: Graph several points on the boundary line.

Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

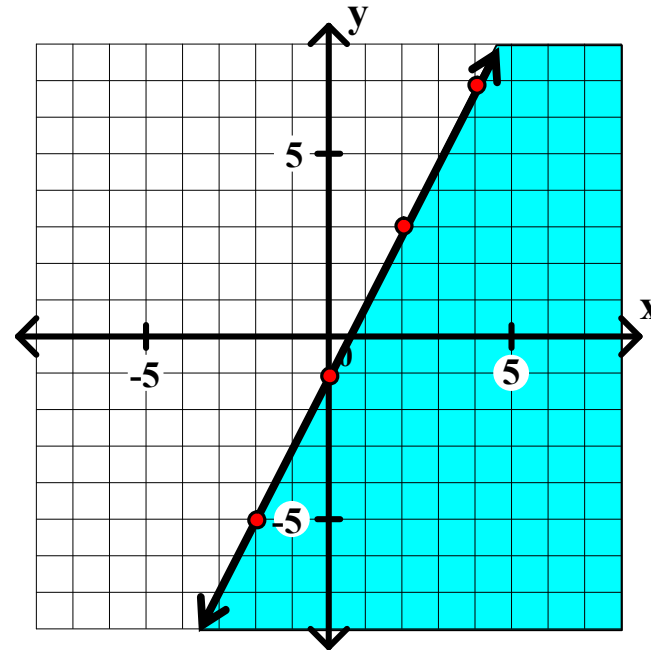
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Algebra I Class Worksheet #3 Unit 7

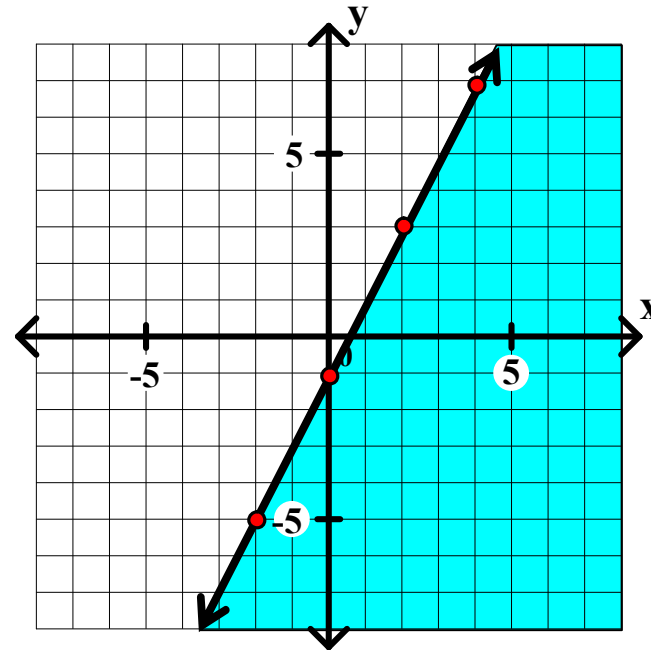
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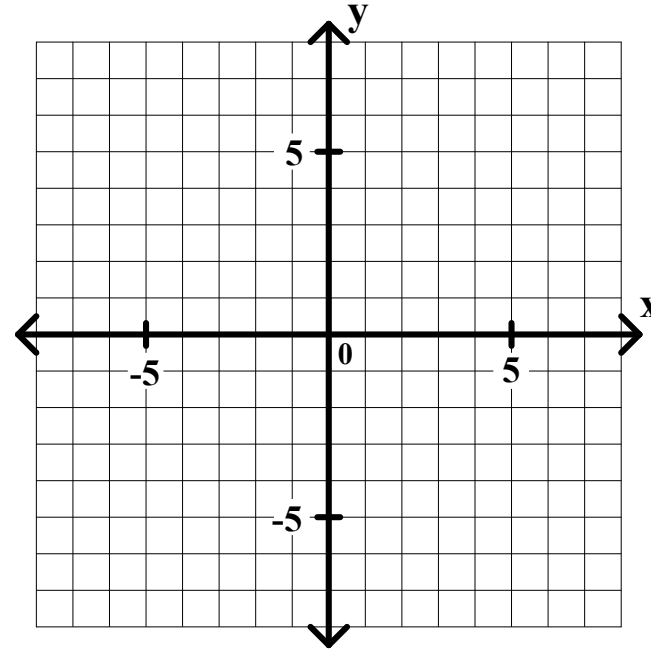
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Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

7. $y < -2x + 3$



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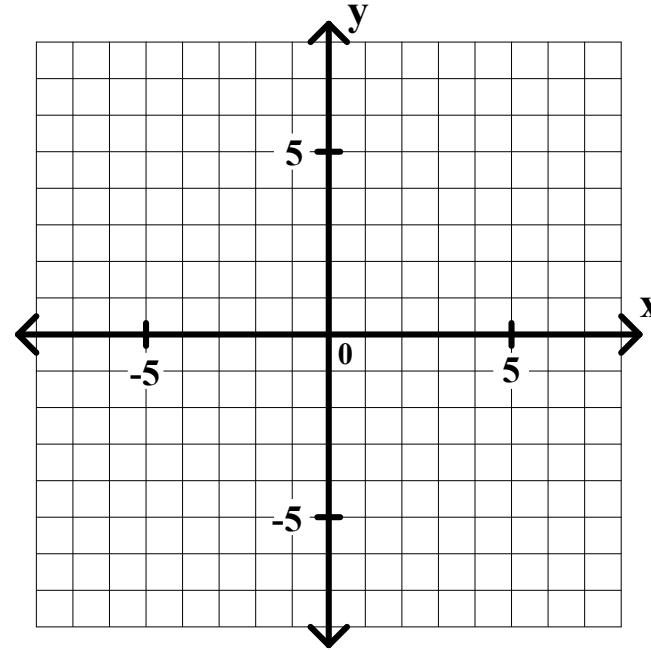
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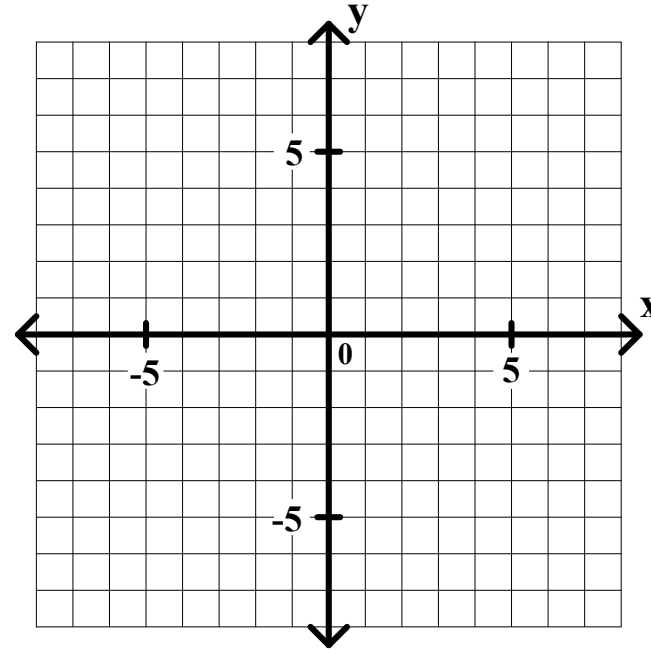
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The boundary line is the oblique line $y = -2x + 3$.



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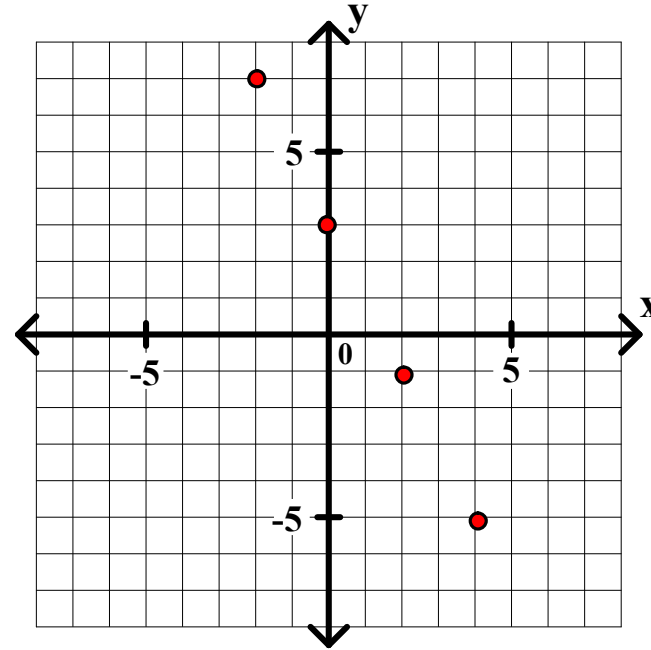
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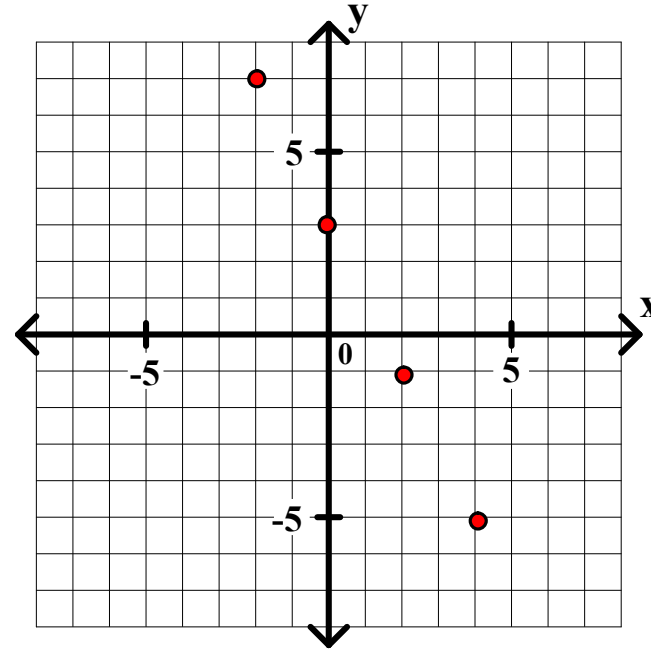
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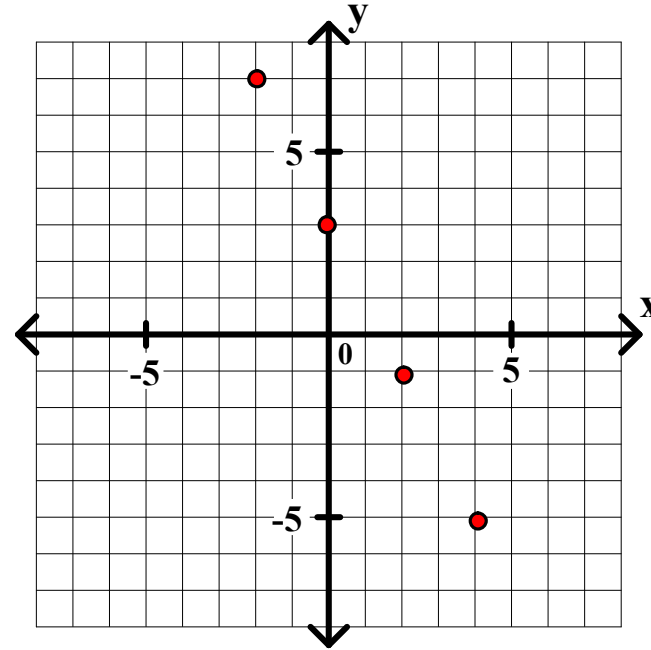
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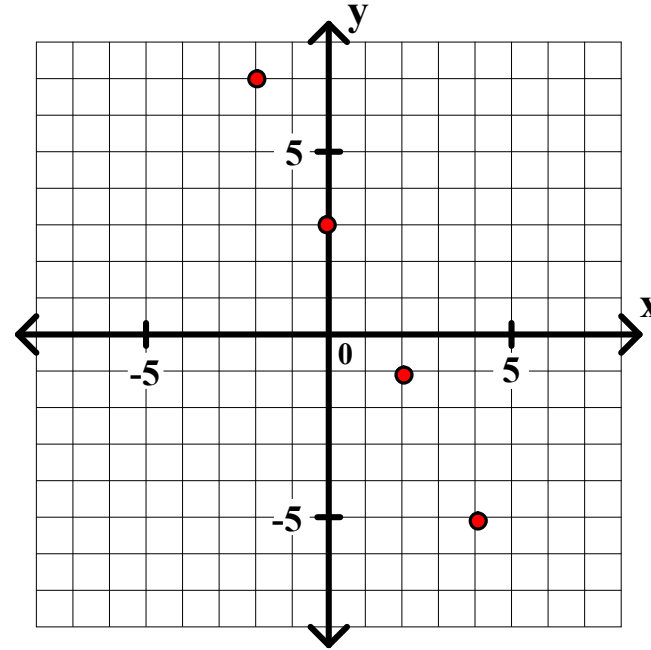
Algebra I Class Worksheet #3 Unit 7

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The boundary line is the oblique line $y = -2x + 3$.

The boundary line is a dashed line.



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Step 2: Draw the boundary line.

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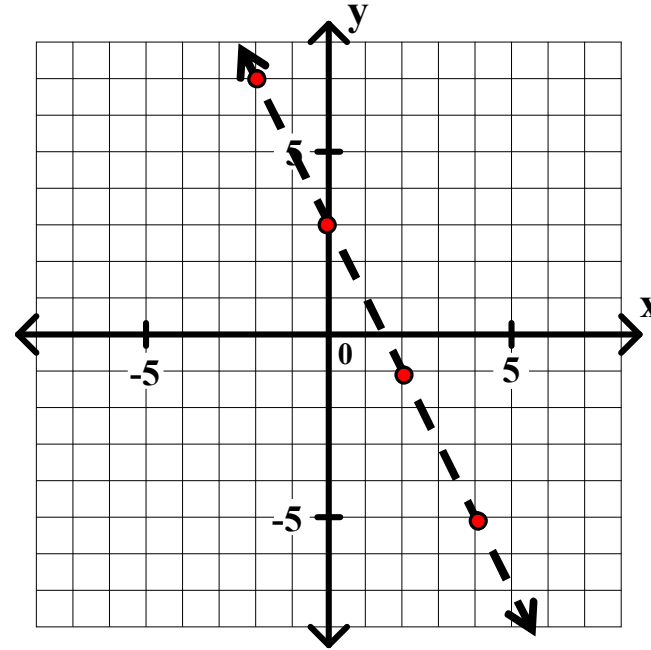
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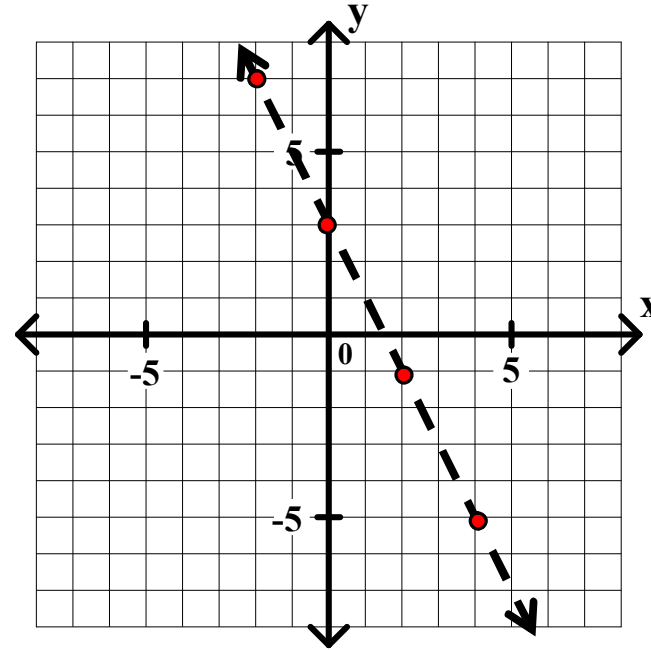
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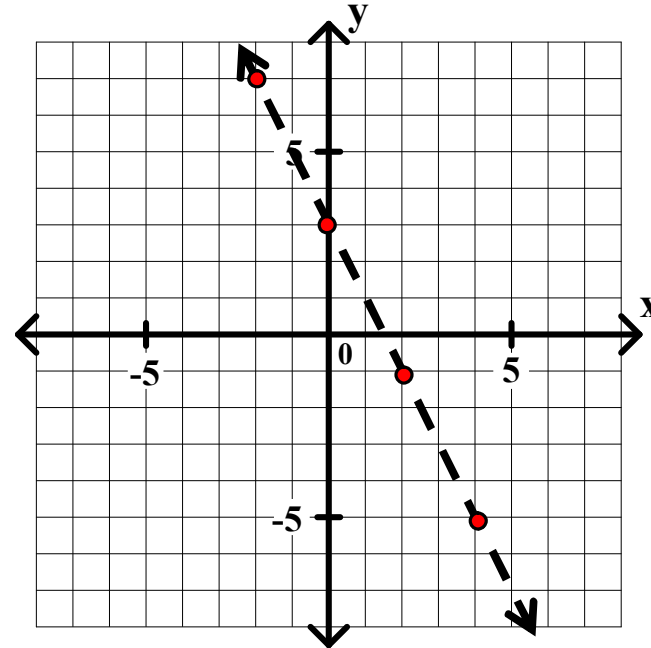
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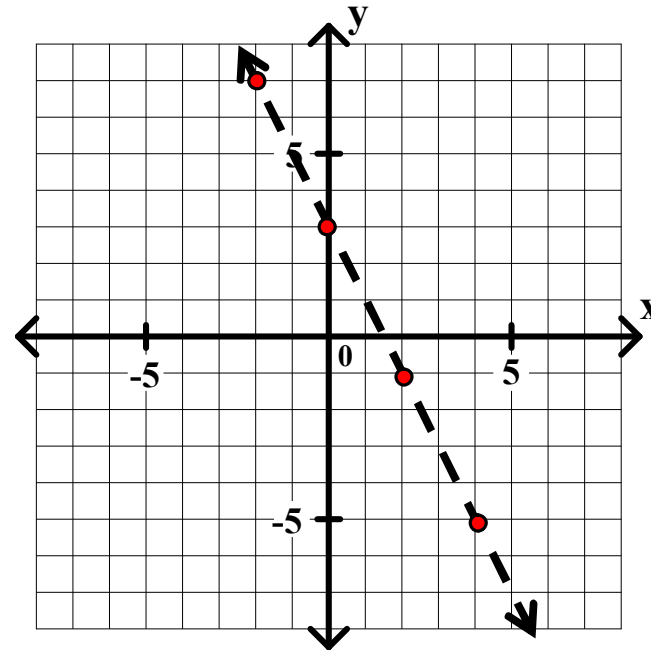
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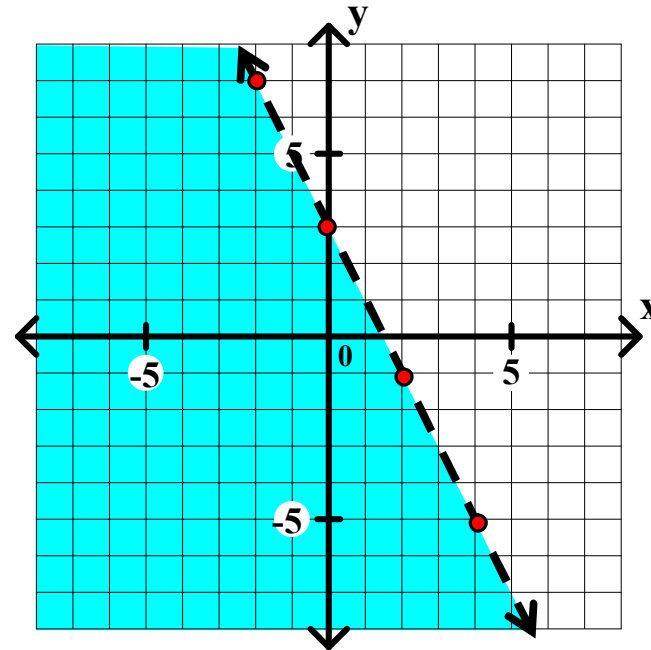
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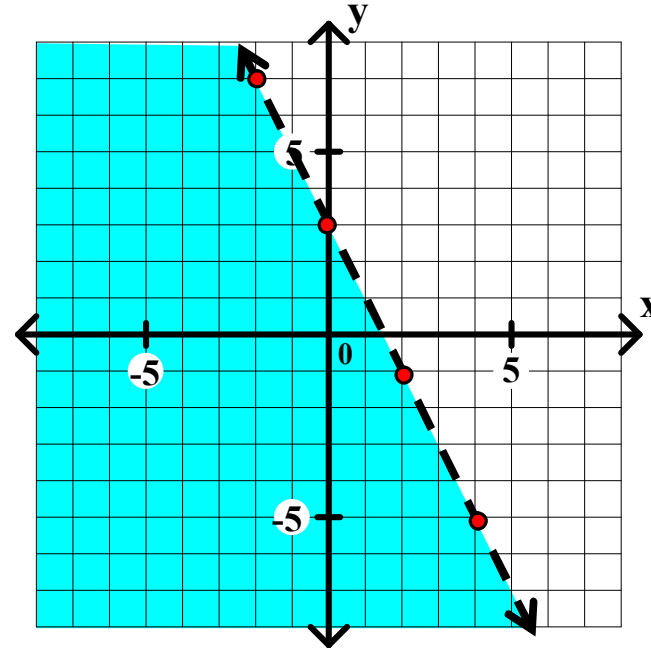
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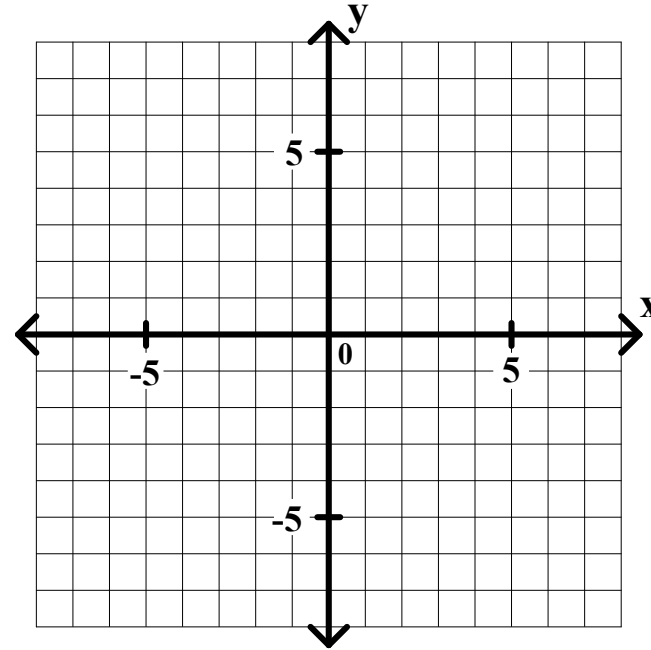
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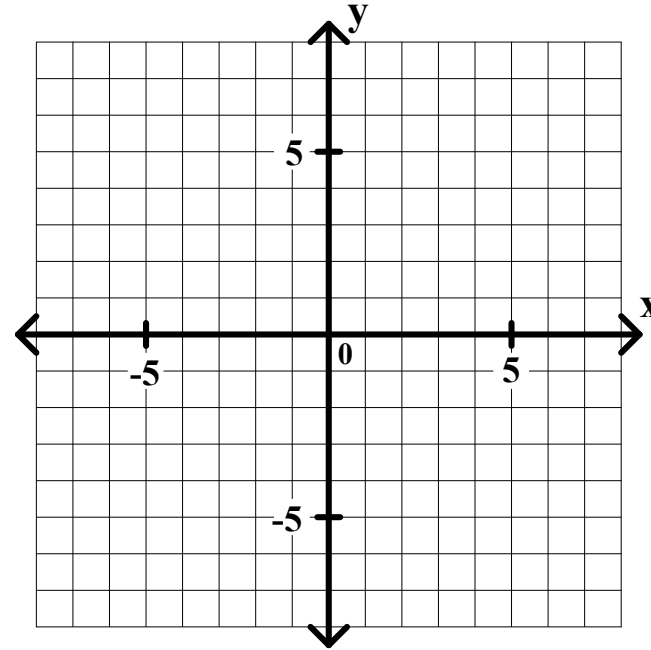
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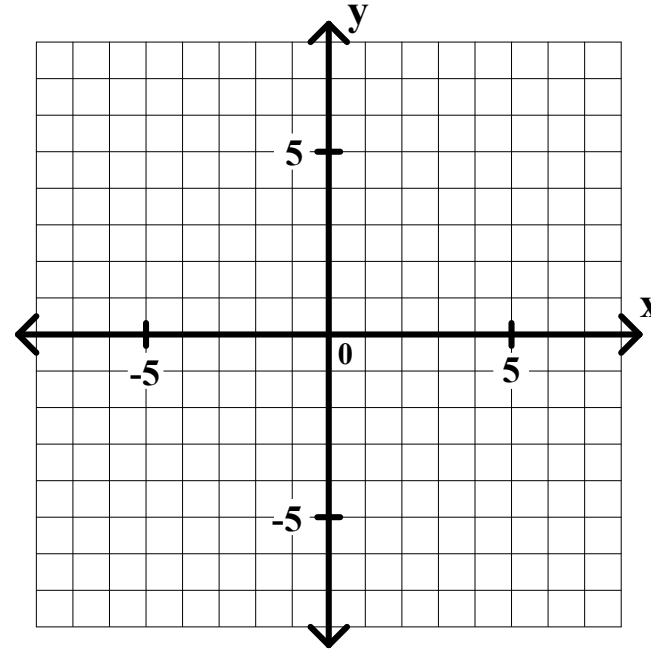
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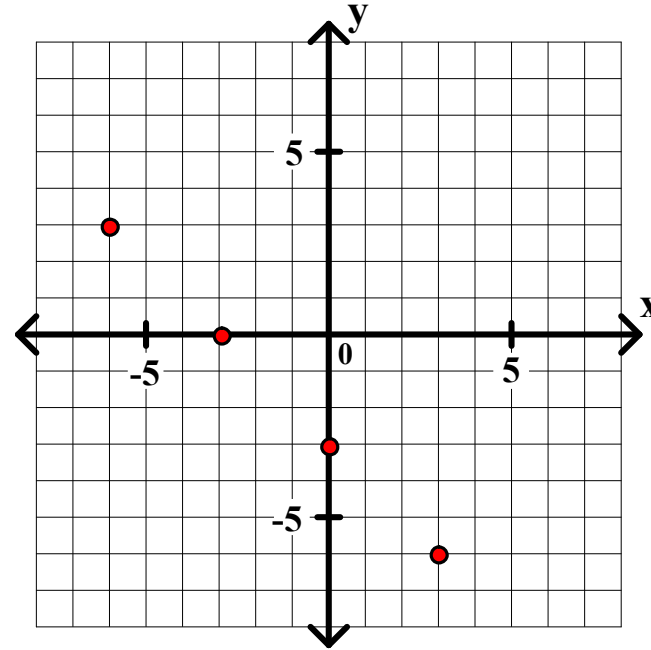
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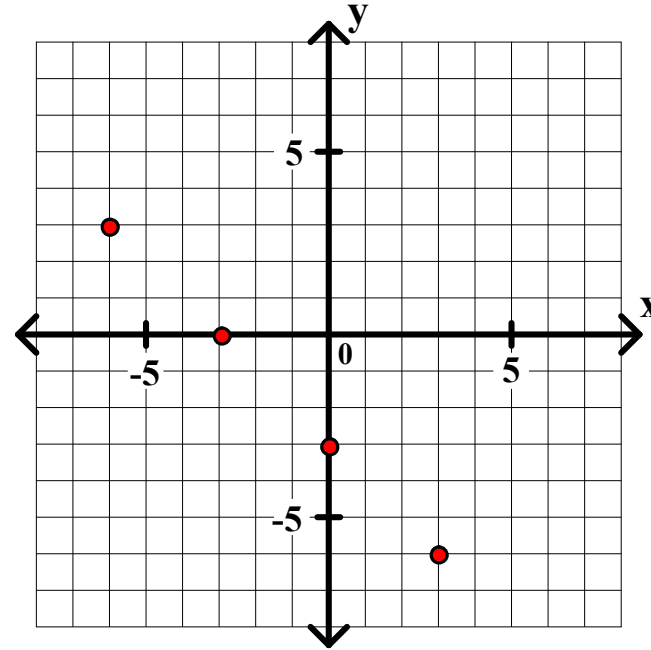
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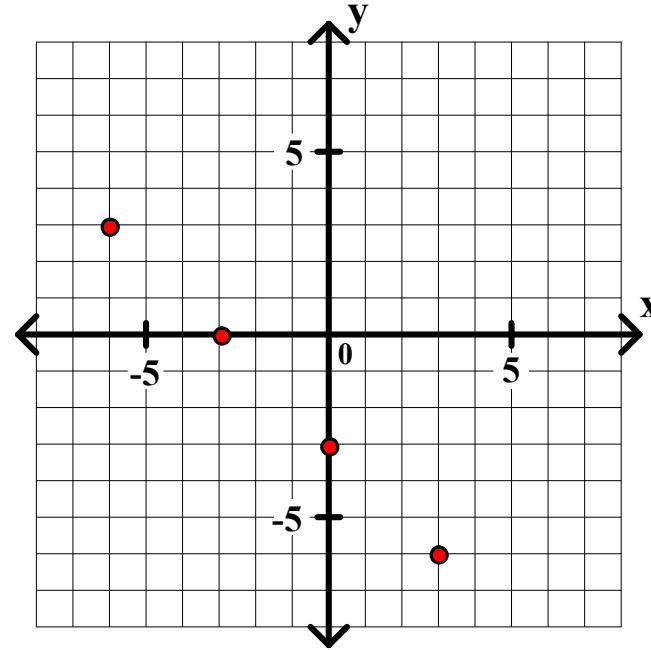
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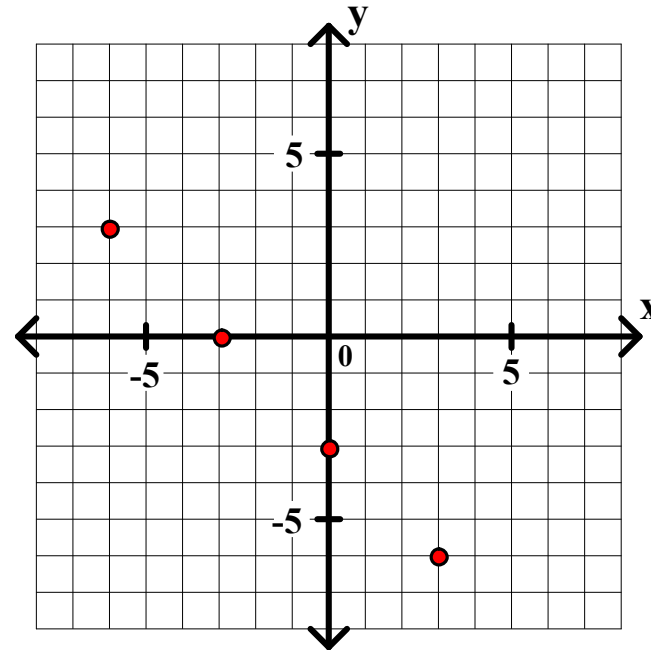
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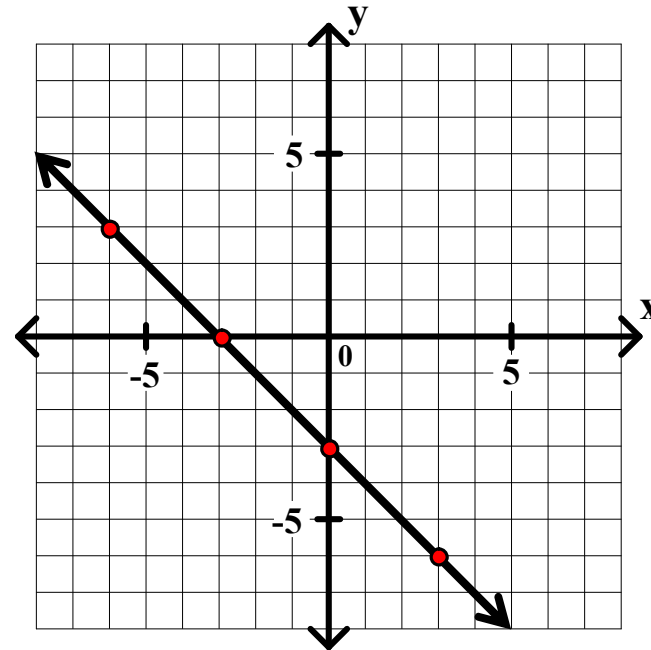
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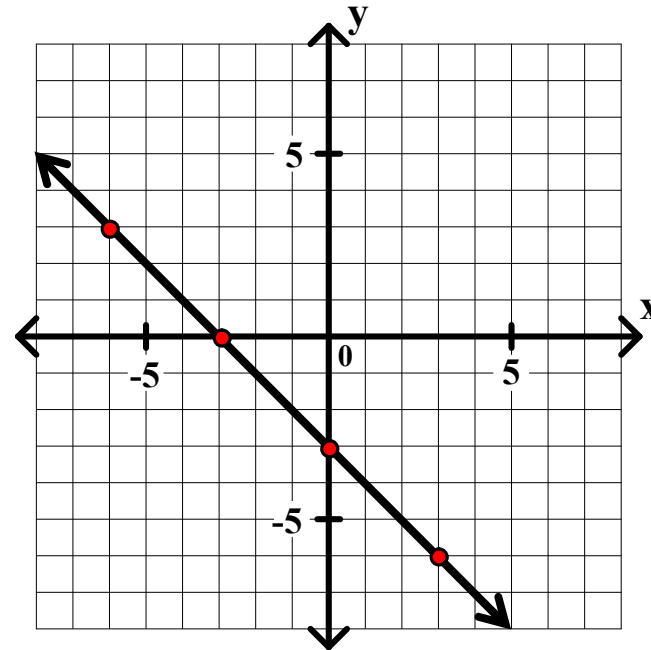
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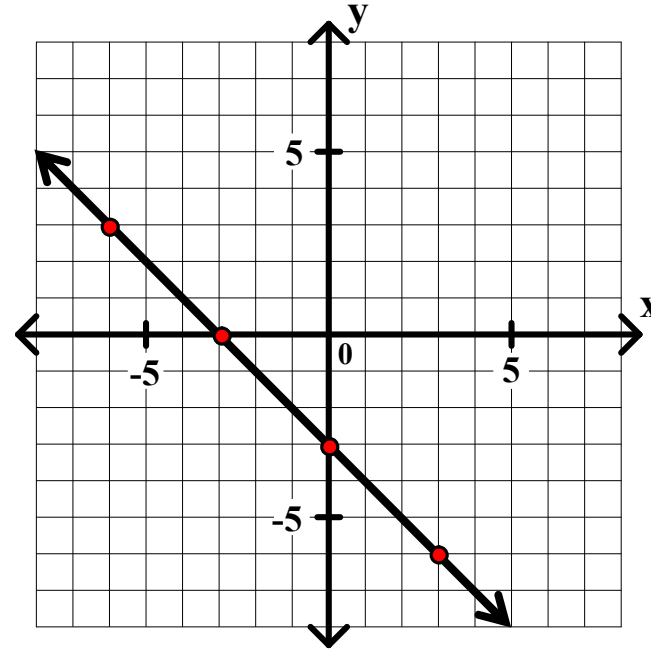
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Algebra I Class Worksheet #3 Unit 7

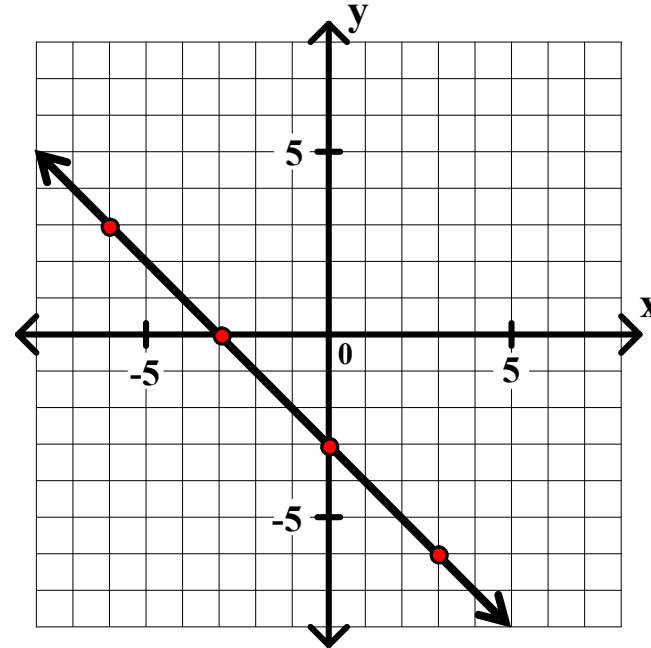
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Shade above the line.



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Algebra I Class Worksheet #3 Unit 7

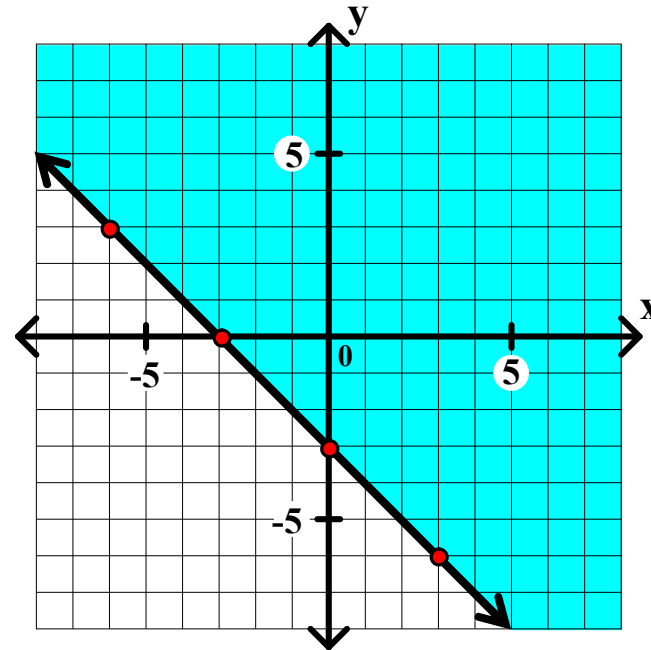
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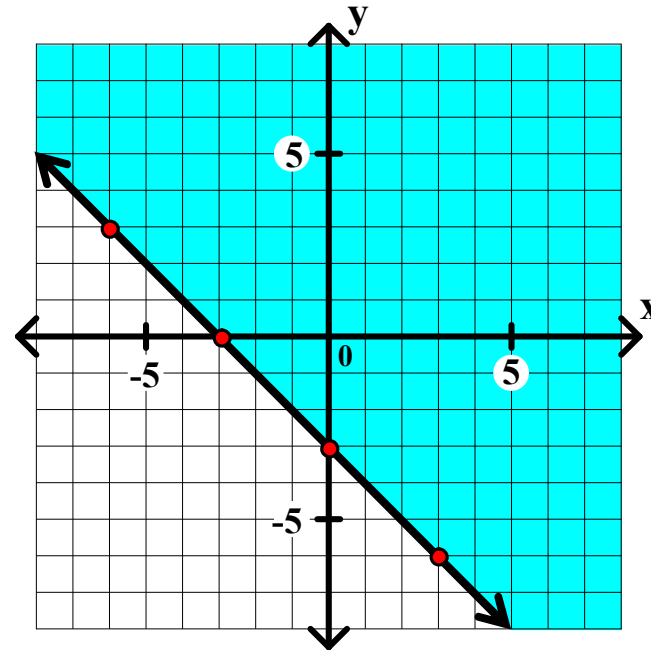
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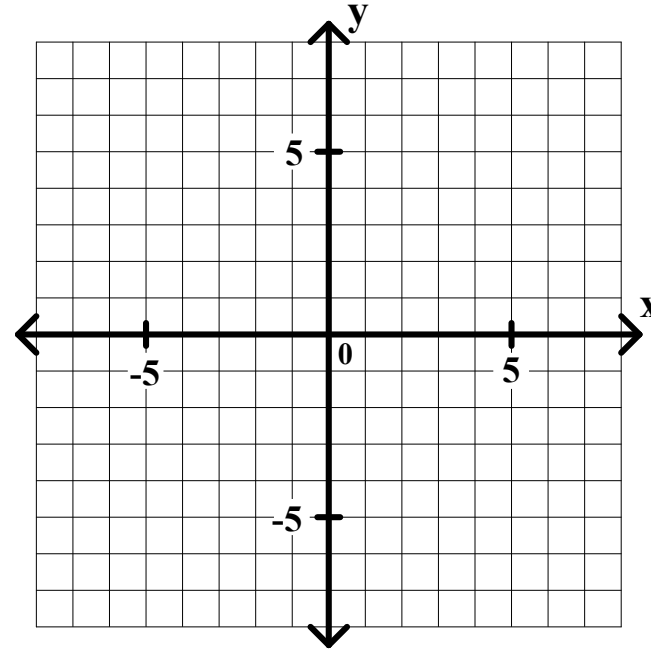
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Algebra I Class Worksheet #3 Unit 7

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9. $y \leq \frac{4}{3}x - 2$



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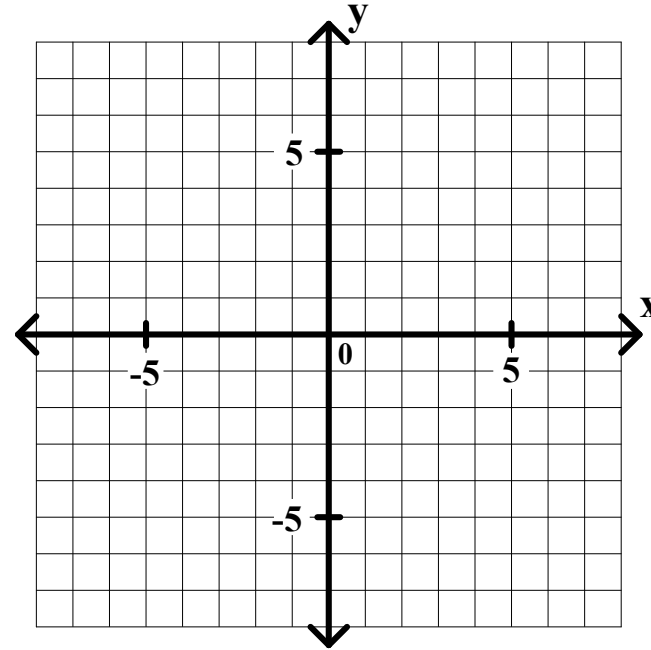
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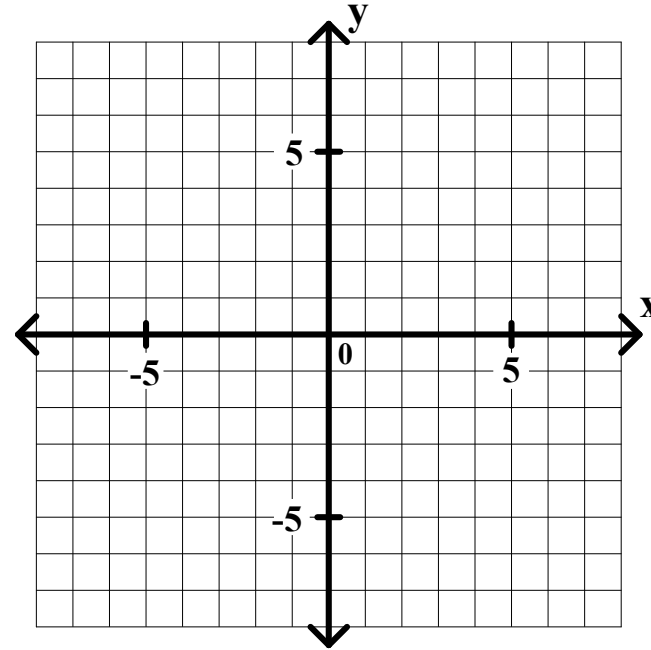
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$$9. \quad y \leq \frac{4}{3}x - 2$$

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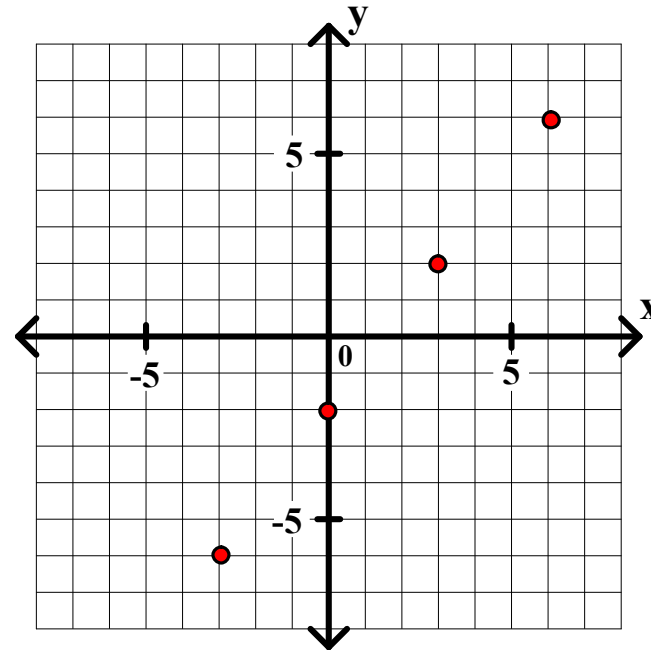
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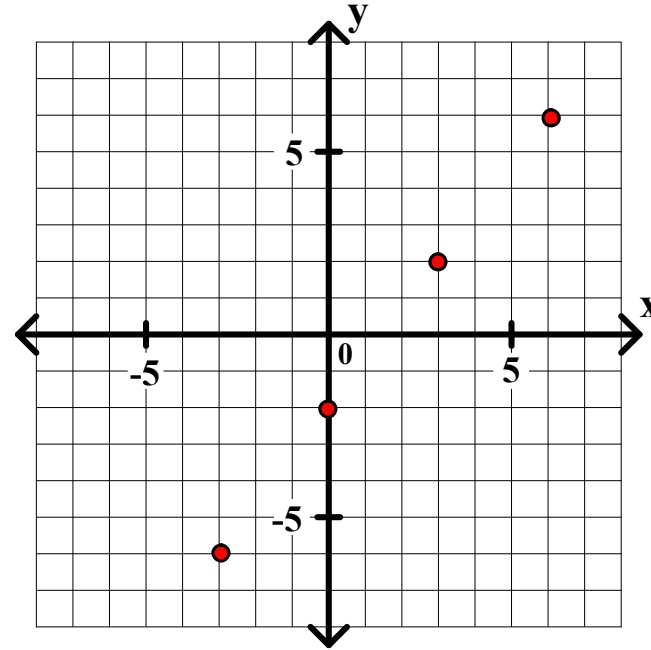
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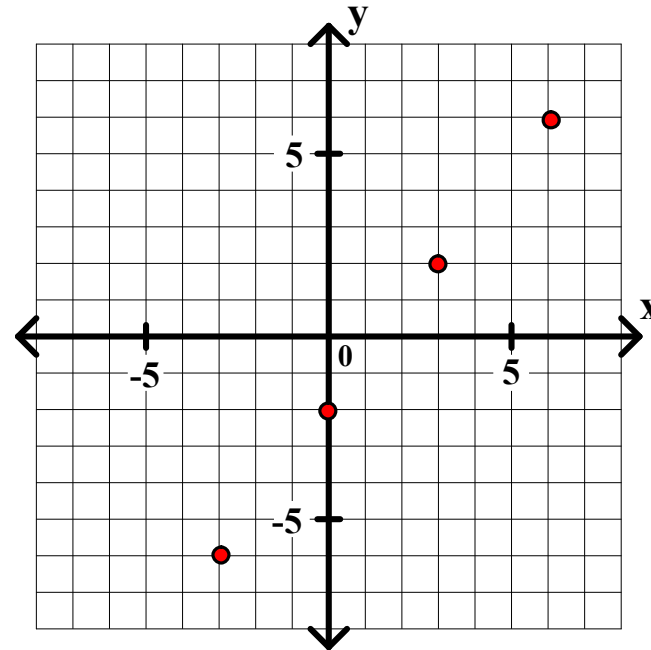
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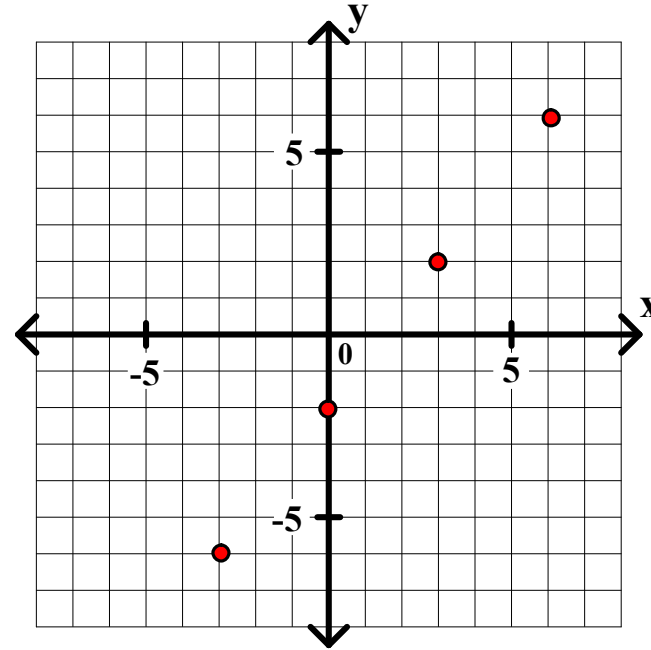
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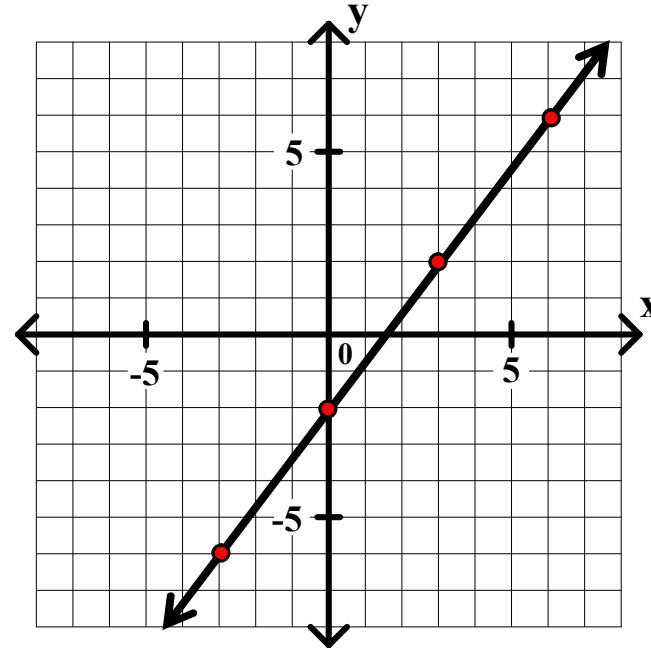
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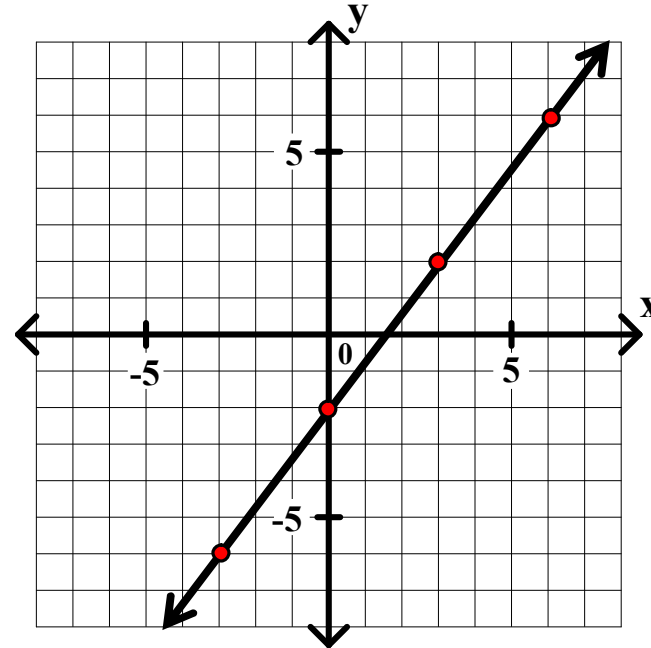
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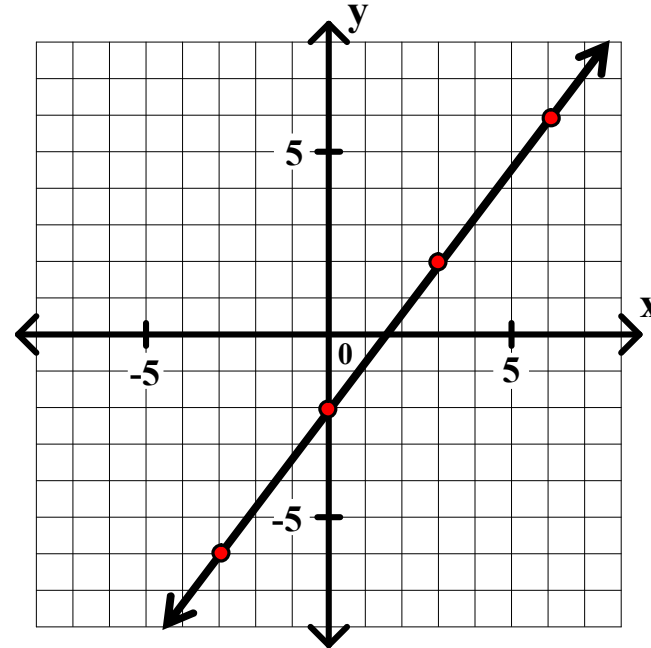
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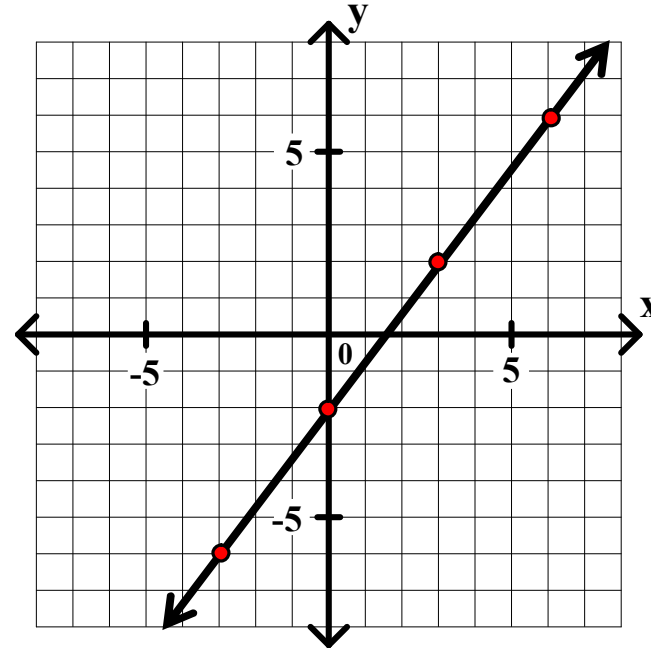
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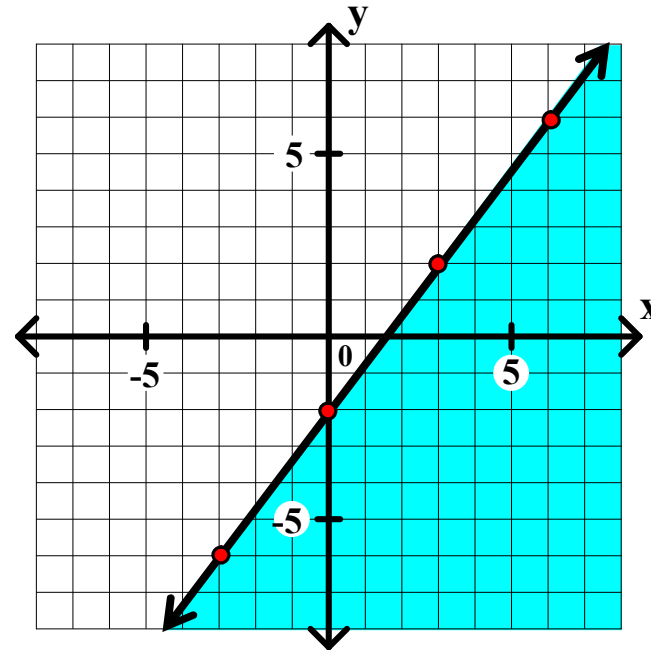
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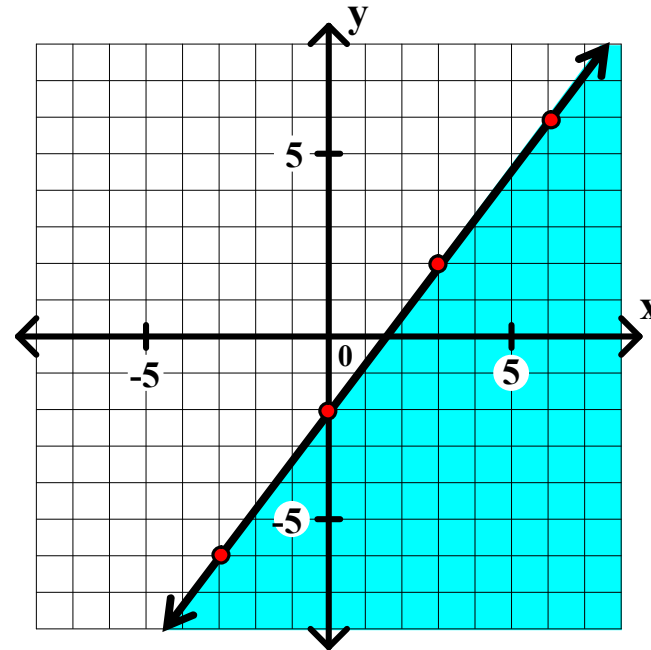
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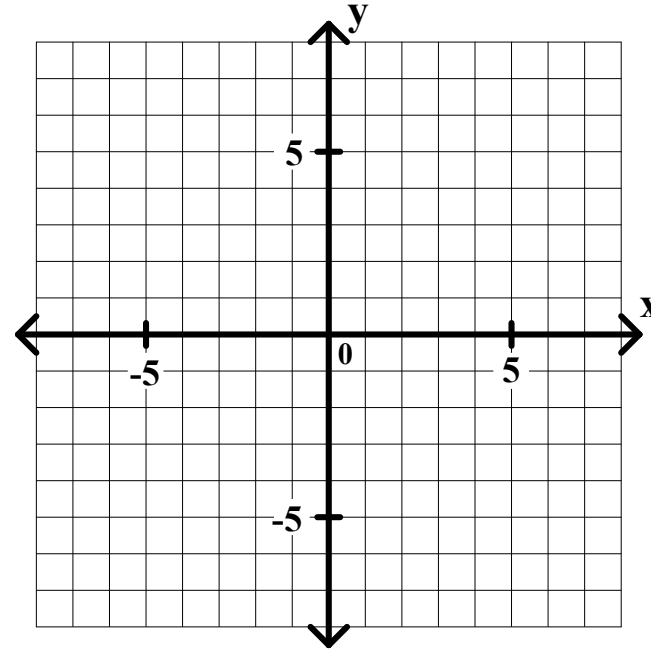
Step 2: Draw the boundary line.

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Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

10. $y \geq \frac{3}{2}x + 2$



Step 1: Graph several points on the boundary line.

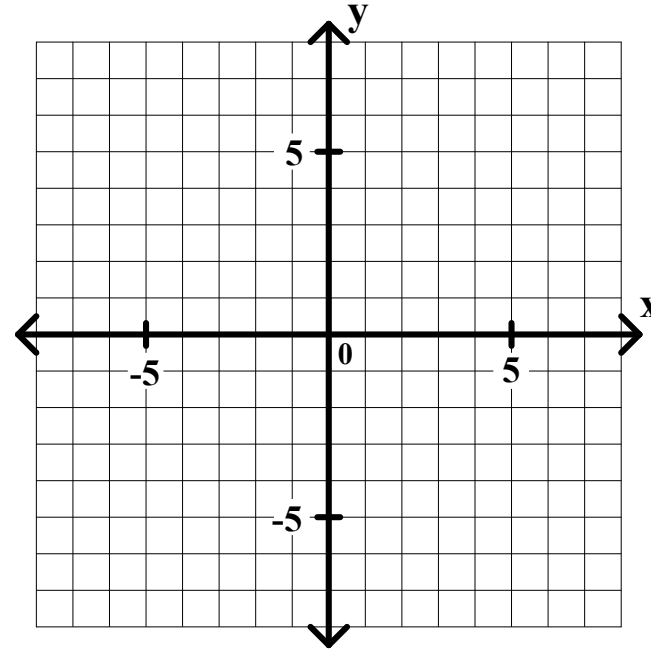
Step 2: Draw the boundary line.

Step 3: Shade the appropriate side of the line.

Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

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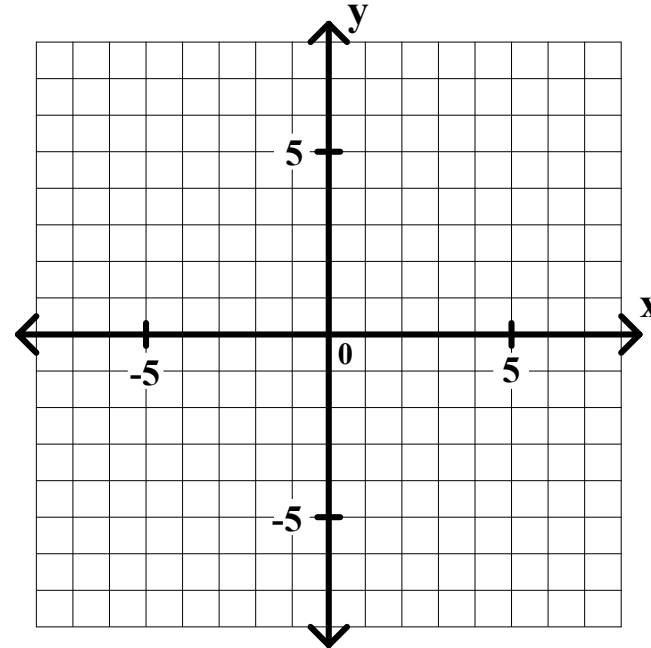
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Algebra I Class Worksheet #3 Unit 7

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The boundary line is the oblique line $y = \frac{3}{2}x + 2$.



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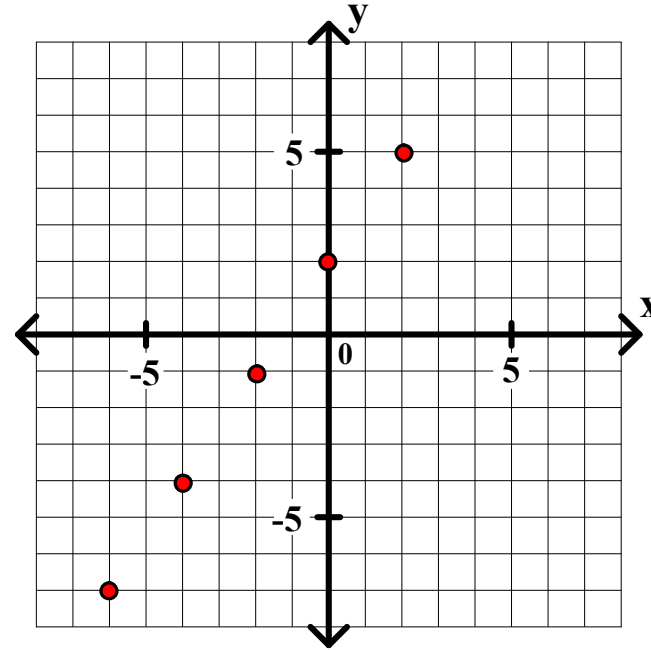
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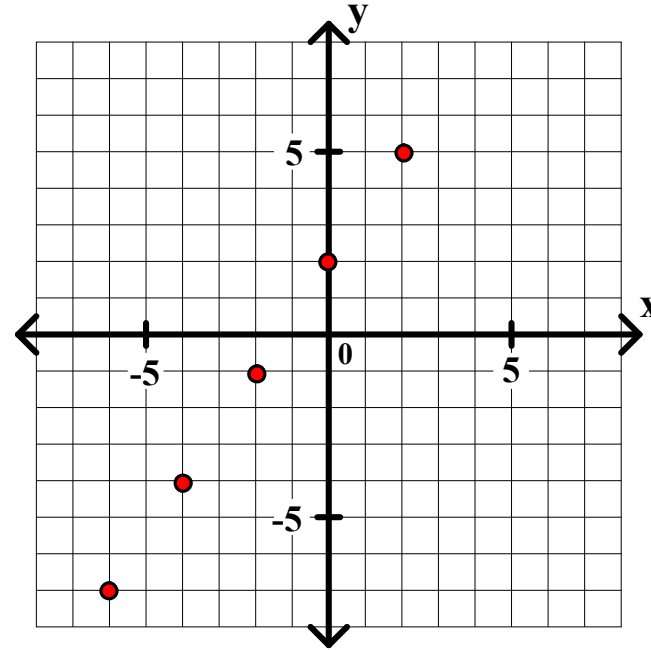
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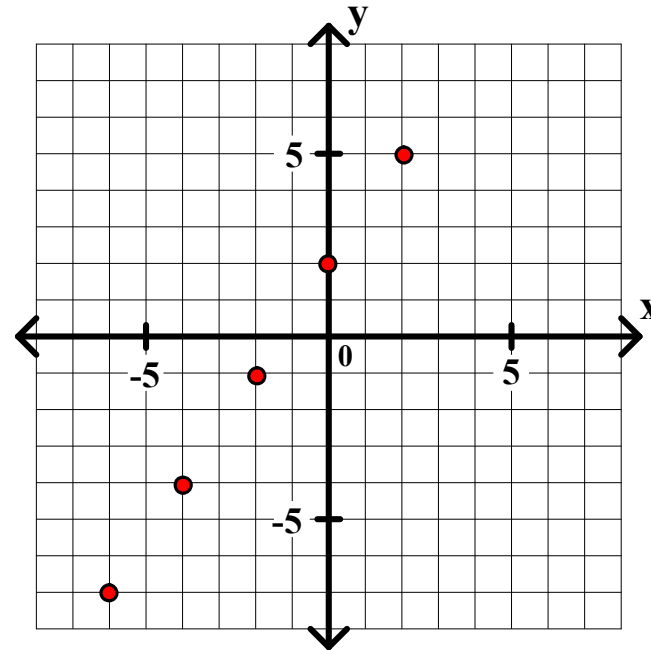
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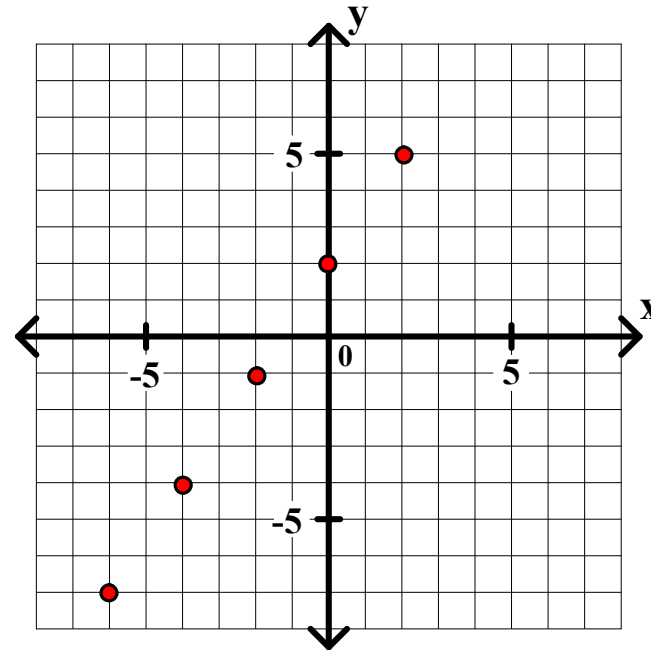
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The boundary line is a solid line.



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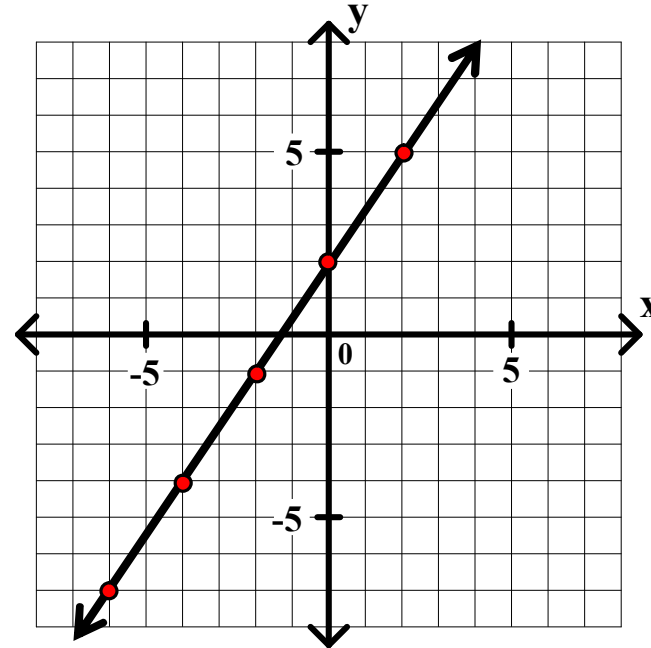
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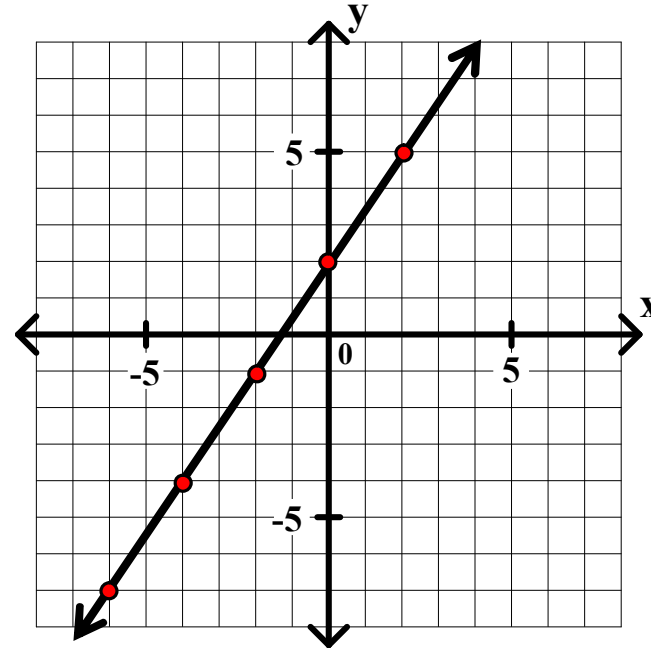
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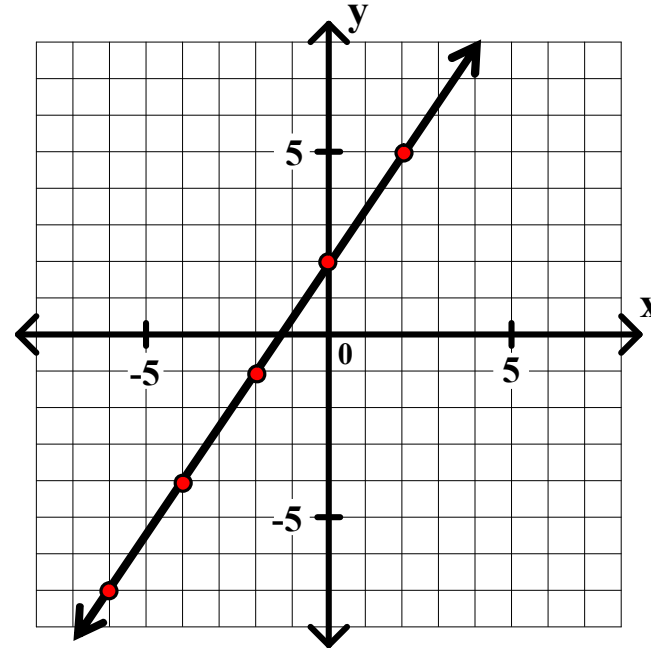
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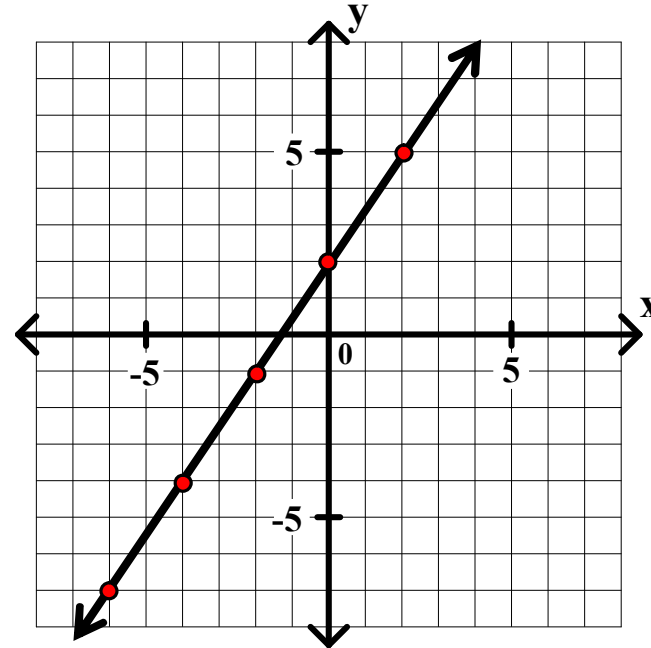
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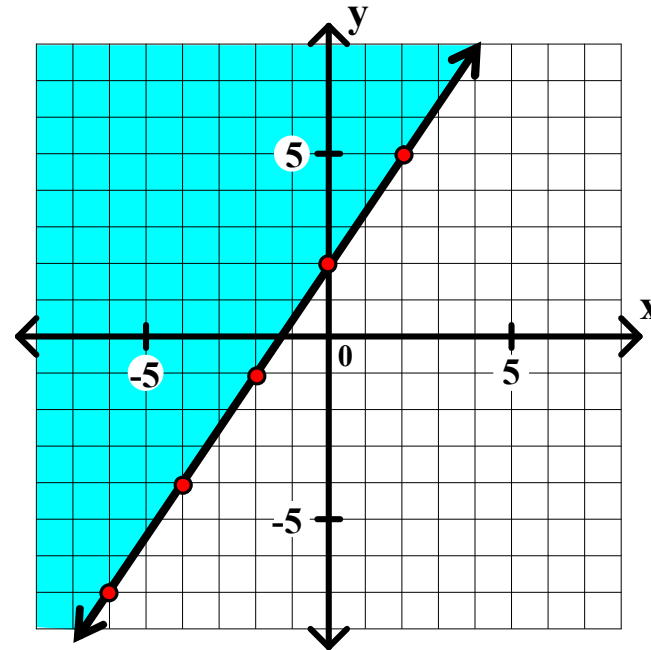
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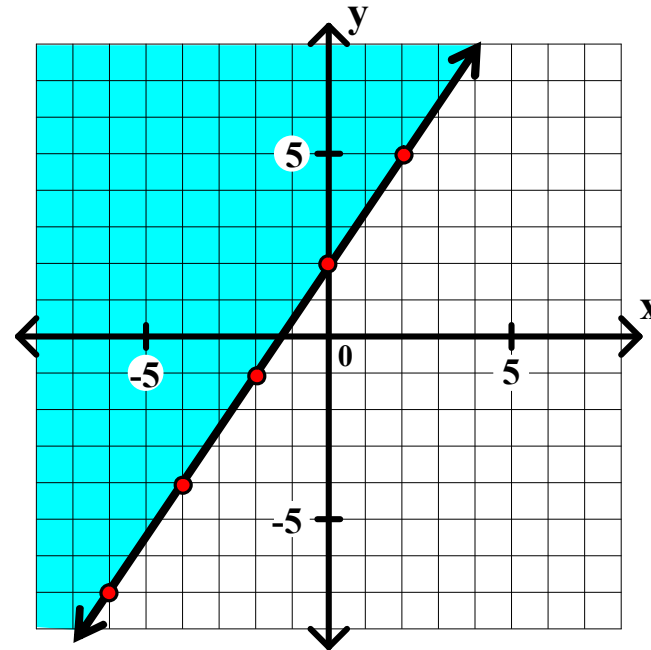
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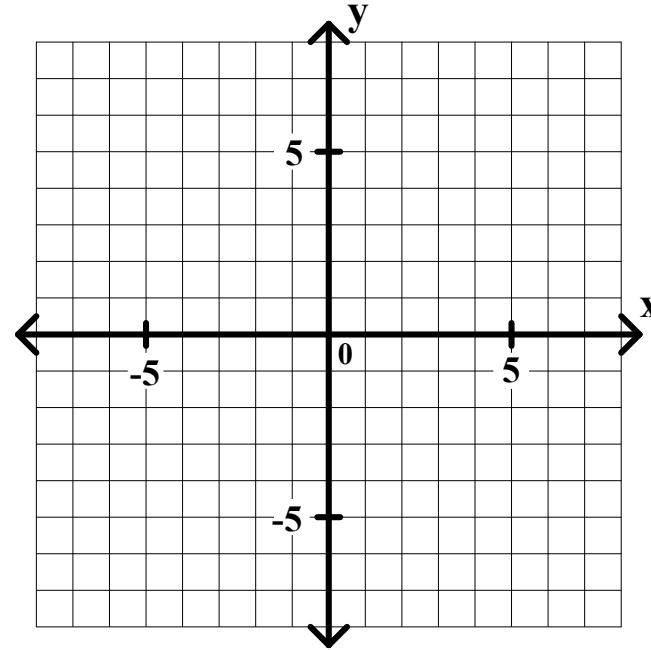
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Algebra I Class Worksheet #3 Unit 7

Graph each of the following.

11. $y < -\frac{1}{2}x + 2$



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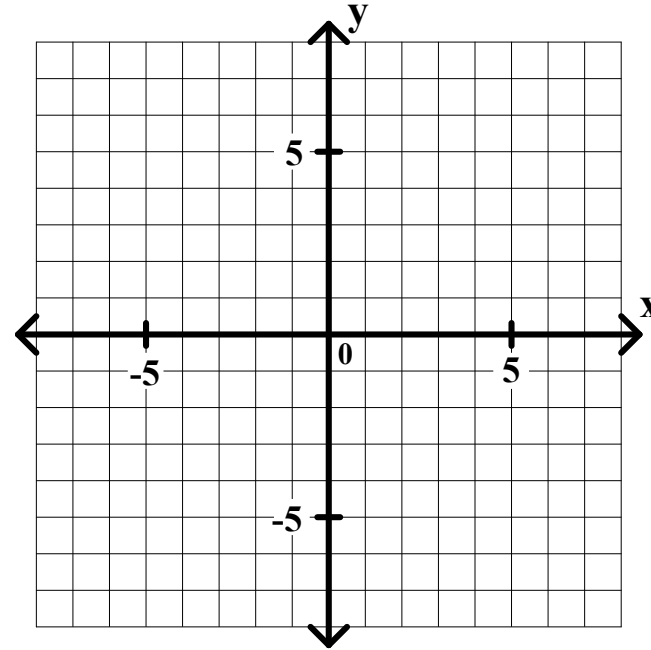
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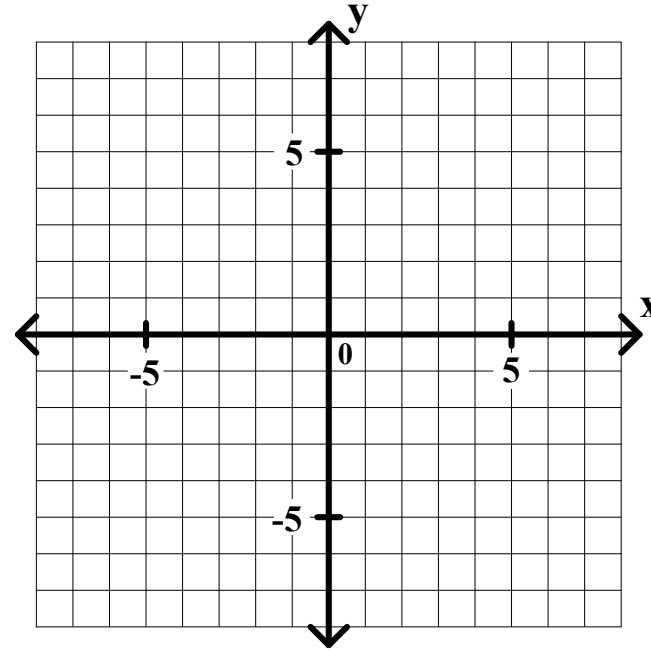
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The boundary line is the oblique line $y = -\frac{1}{2}x + 2$.



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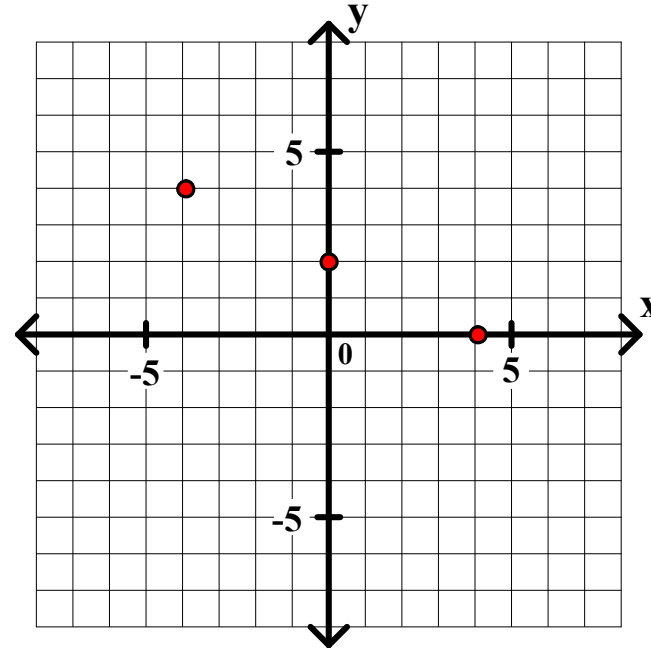
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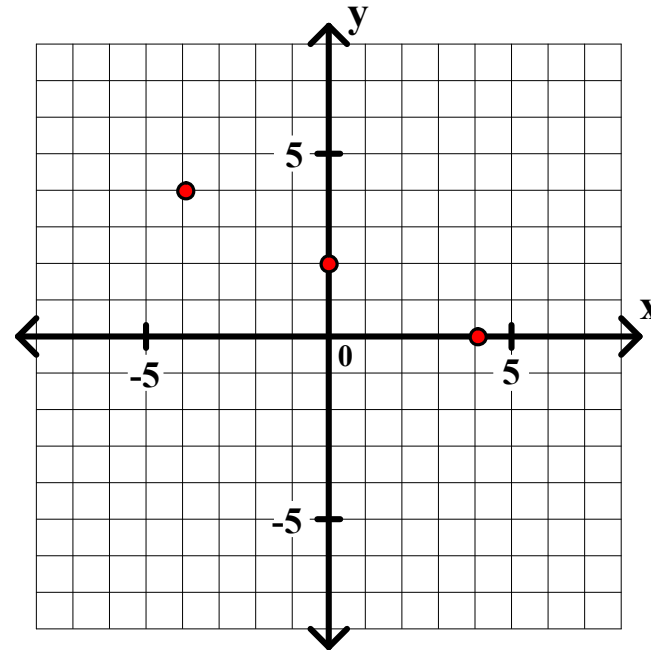
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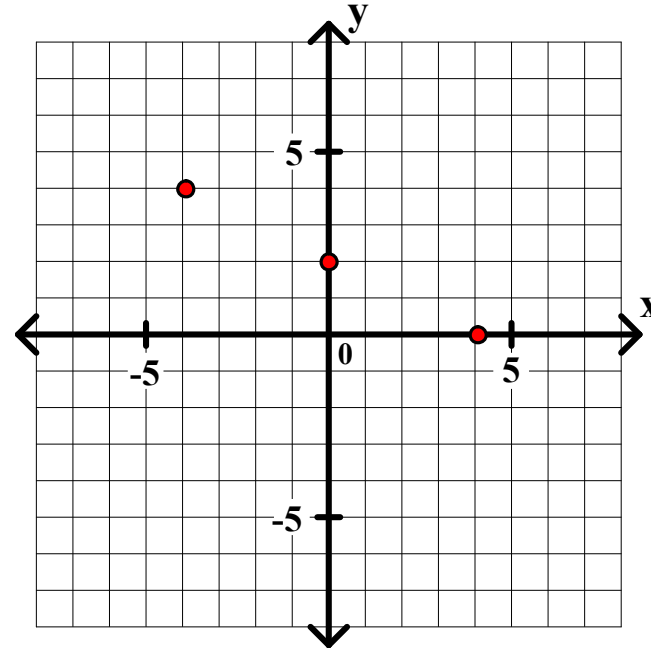
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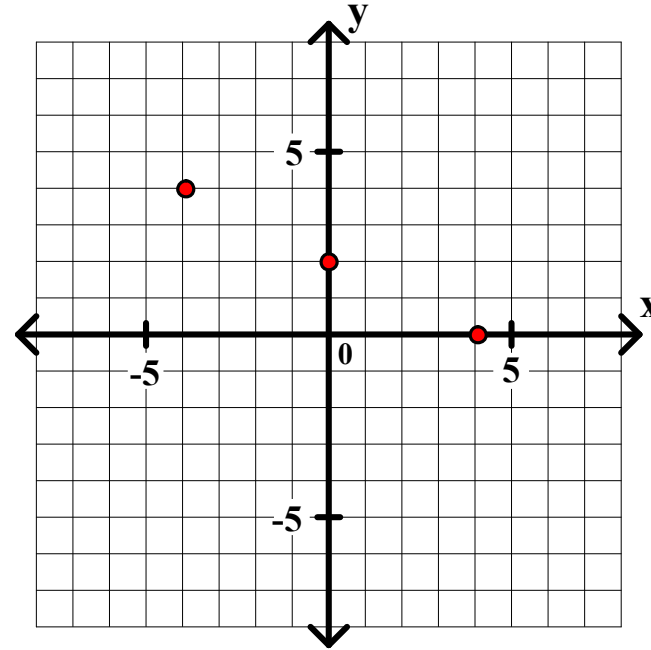
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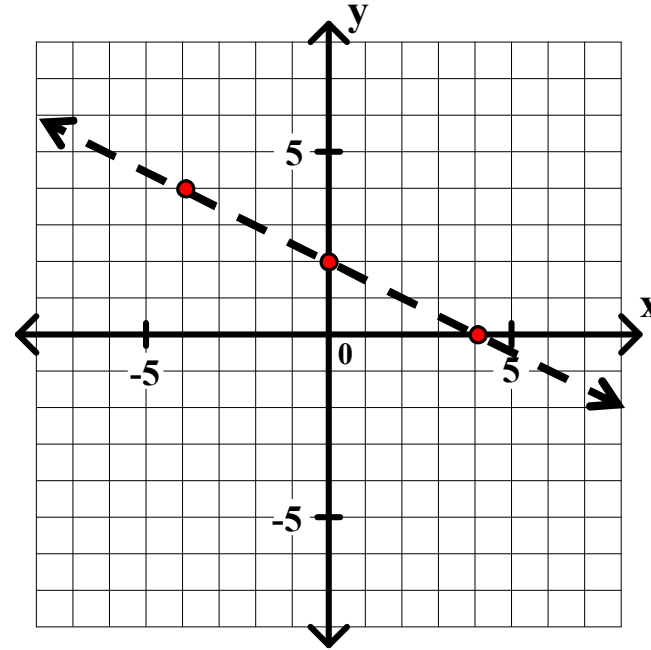
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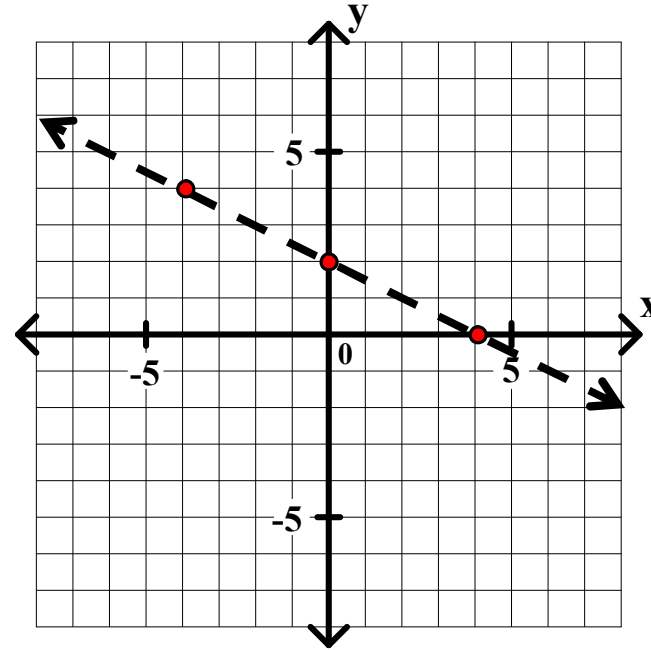
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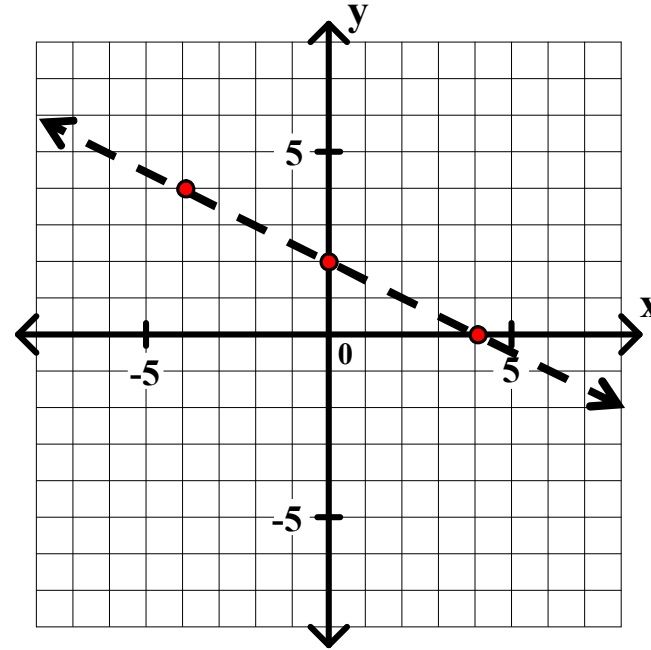
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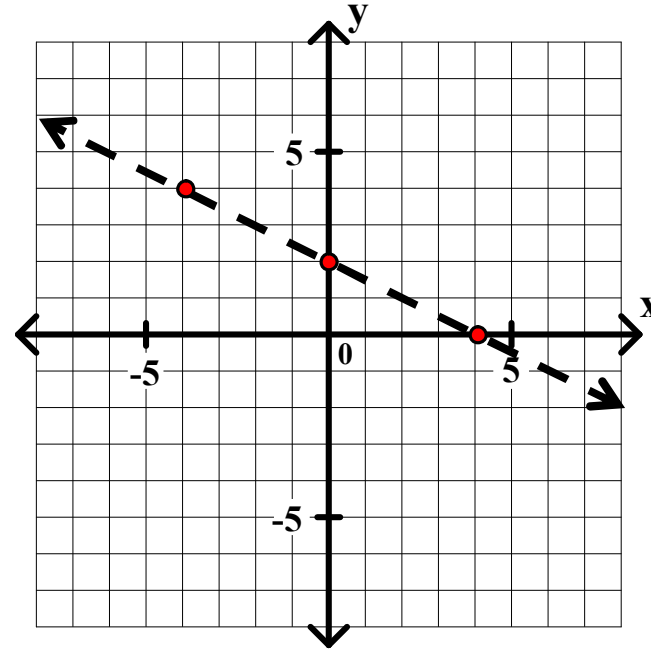
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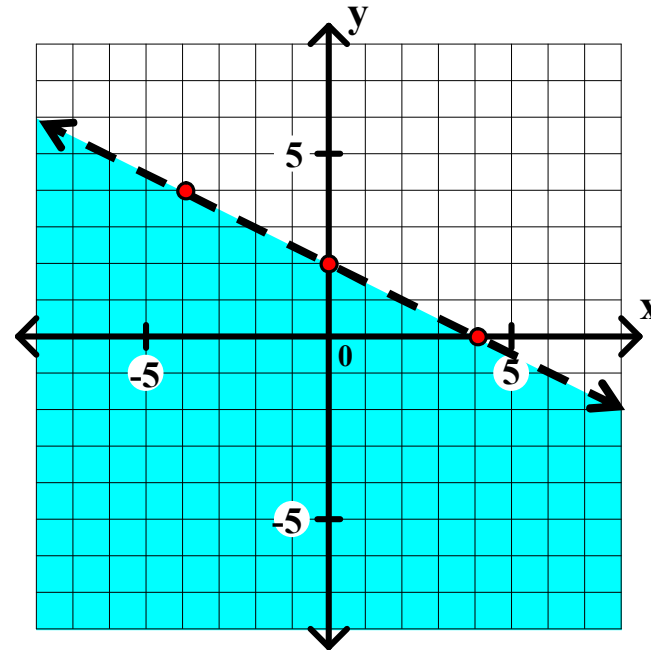
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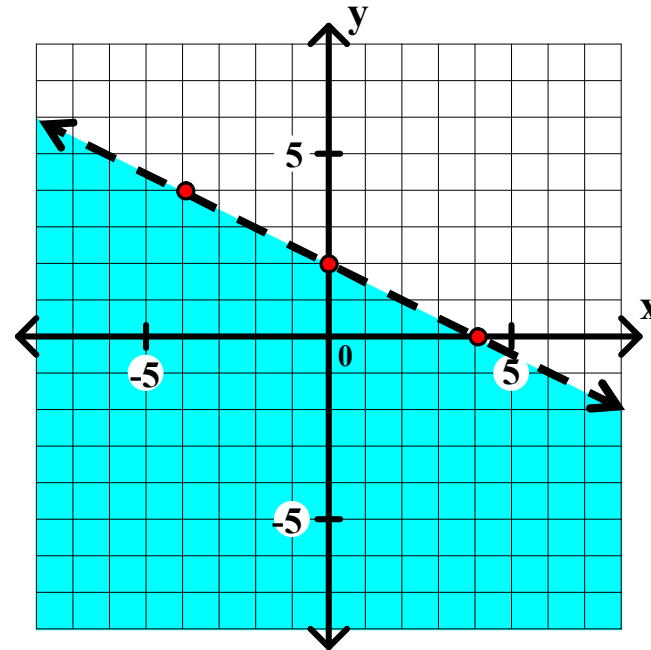
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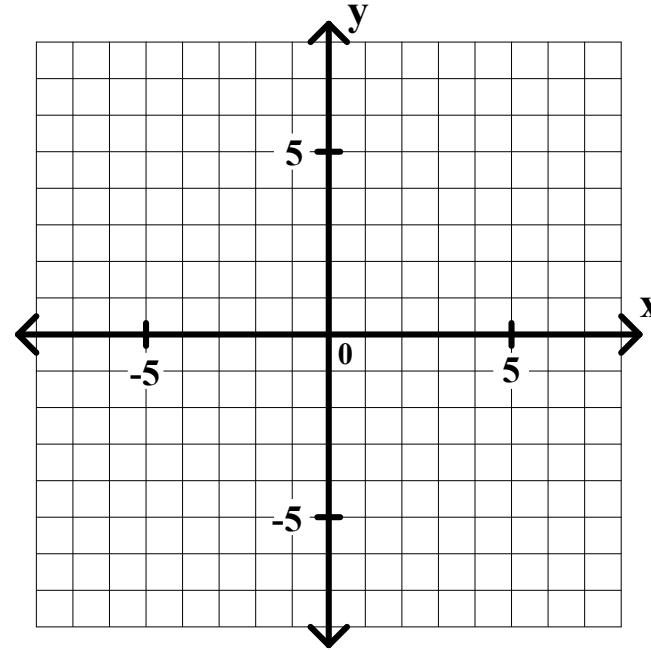
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$$12. \quad y > \frac{-1}{3}x - 1$$



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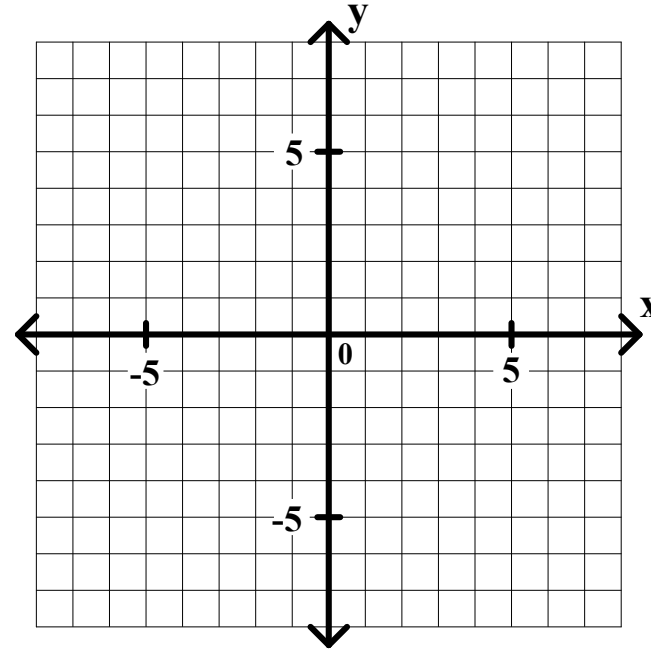
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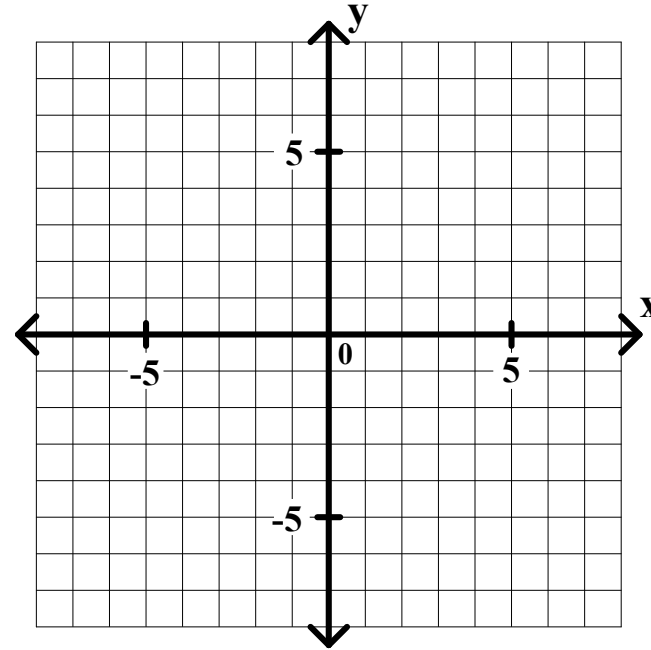
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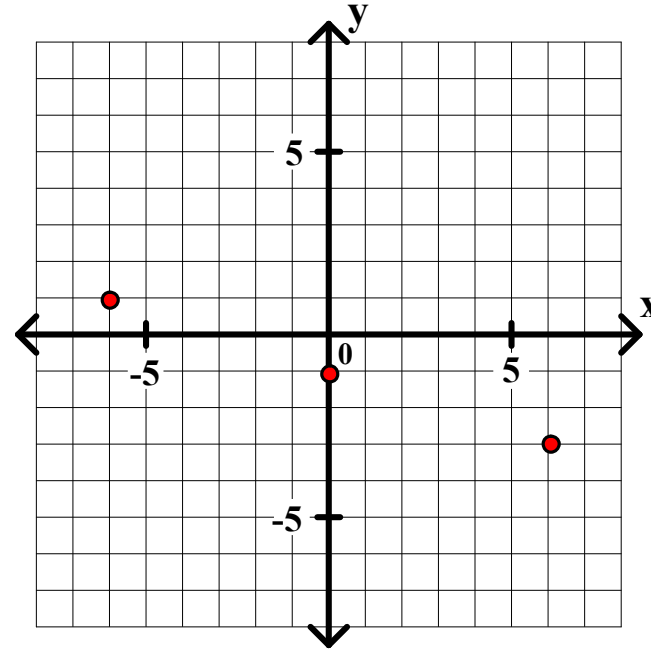
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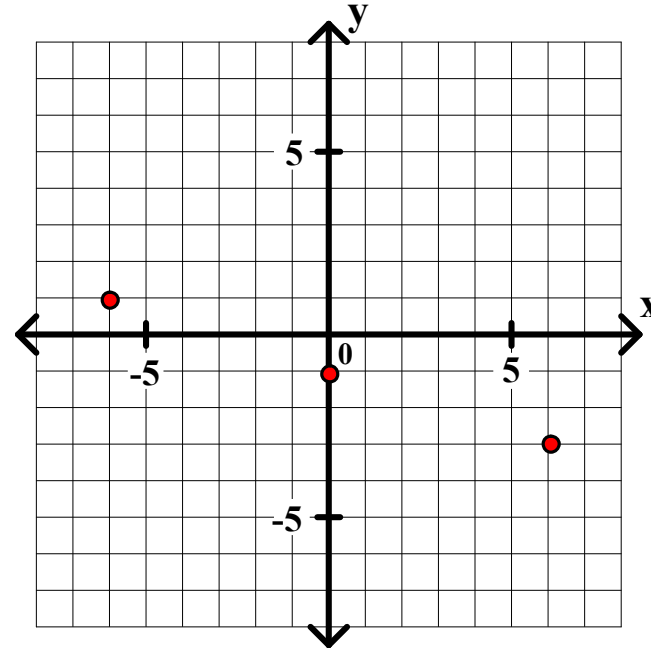
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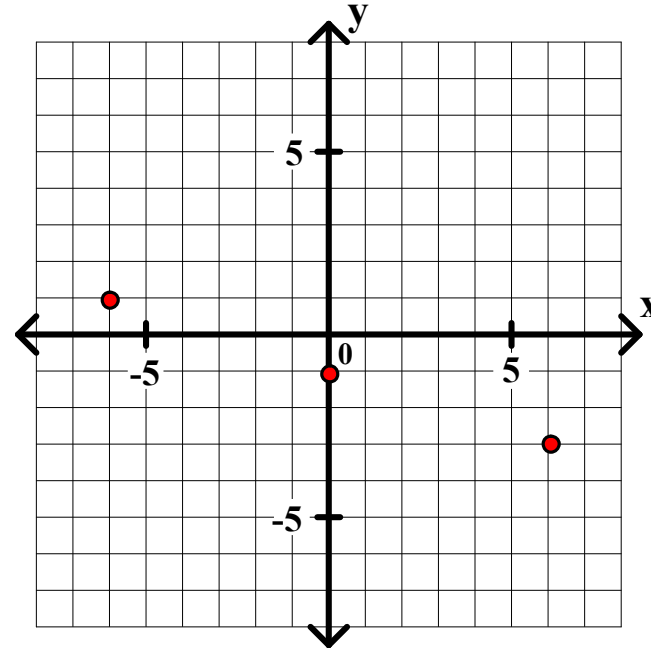
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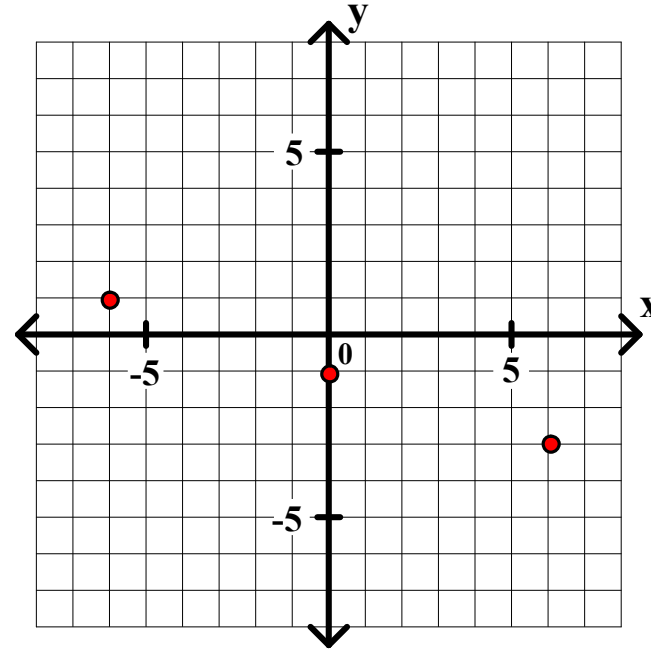
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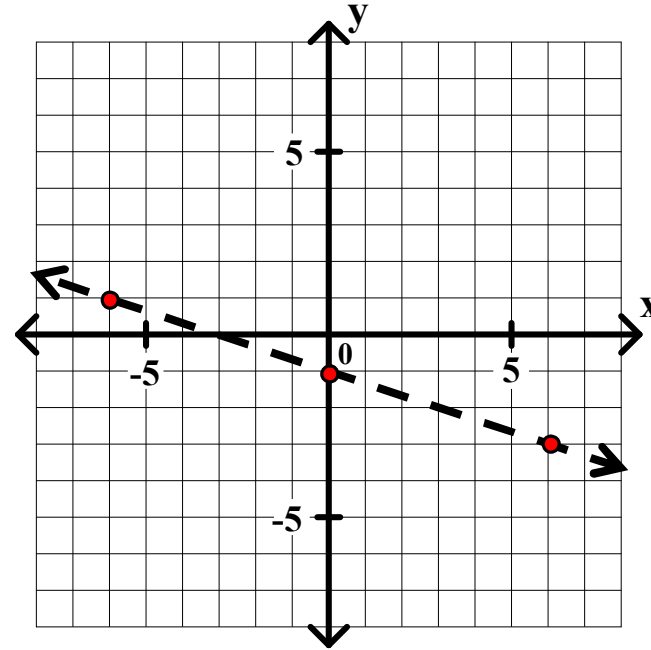
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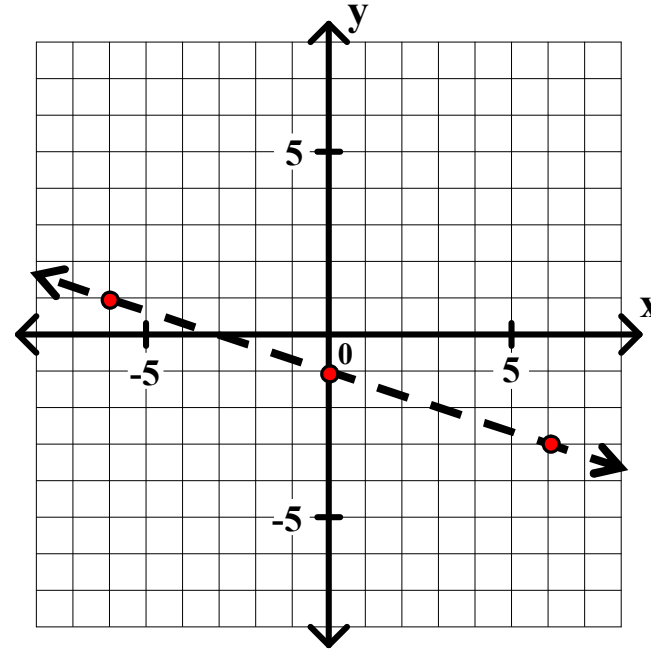
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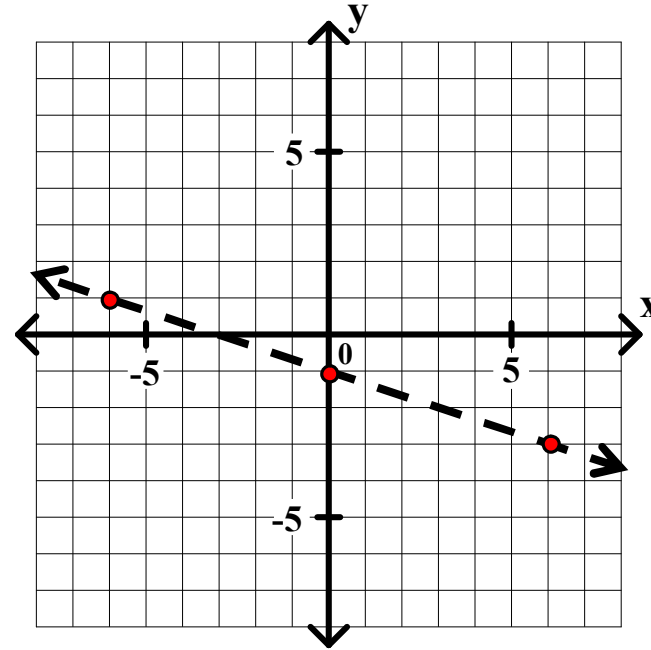
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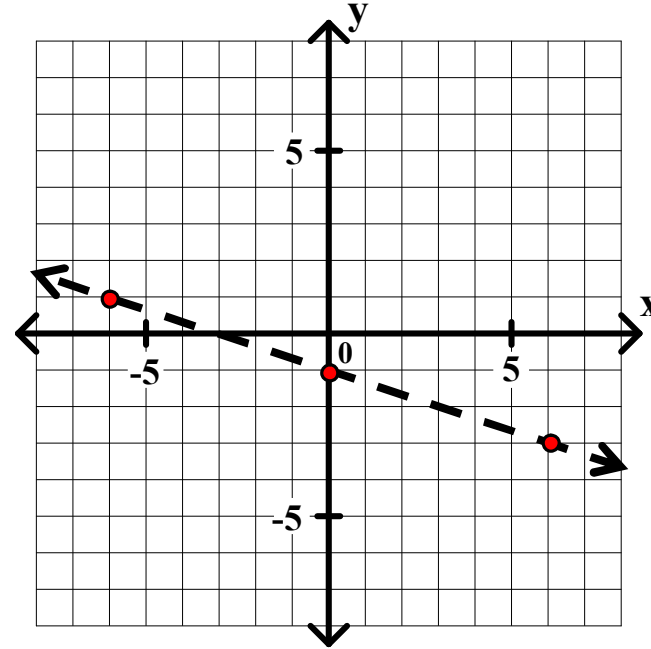
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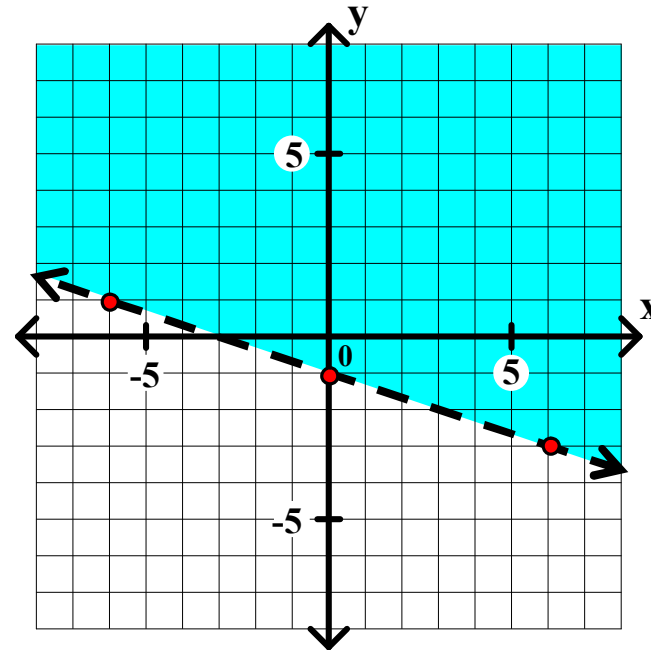
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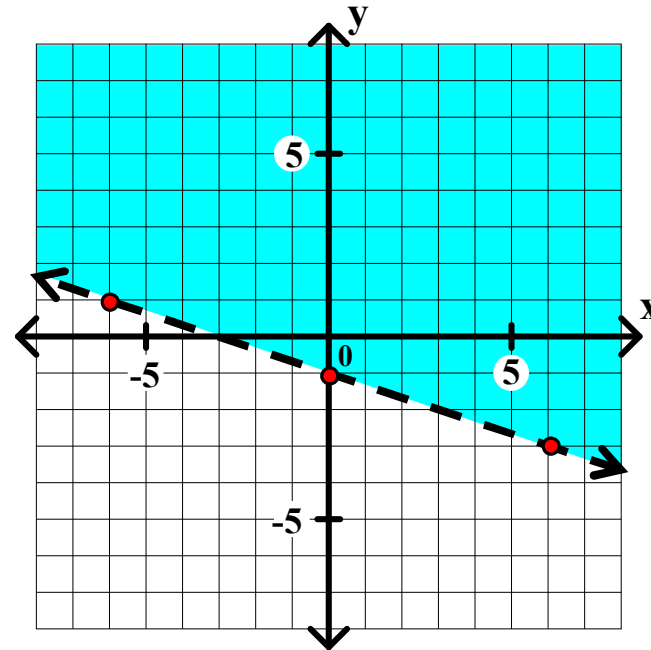
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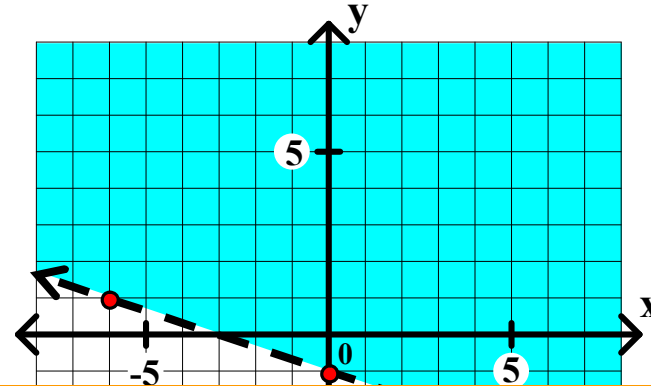
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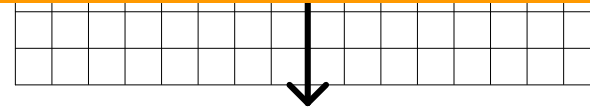
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Good luck on your homework !!



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