

Name: _____ Date: _____

Graphing Linear Inequalities

Directions for 1-4: Fill in the blanks.

1st blank is SOLID OR DASHED. 2nd blank is ABOVE OR BELOW. 3rd blank is LEFT OR RIGHT.

1. Given the symbol \geq :

The line will be _____, and you will shade _____ the y-intercept or _____ of a vertical line.

2. Given the symbol $>$:

The line will be _____, and you will shade _____ the y-intercept or _____ of a vertical line.

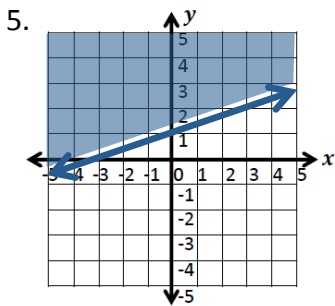
3. Given the symbol \leq :

The line will be _____, and you will shade _____ the y-intercept or _____ of a vertical line.

4. Given the symbol $<$:

The line will be _____, and you will shade _____ the y-intercept or _____ of a vertical line.

Directions for 5-8: Identify the type of line, shading, symbol, slope, and y-intercept for each graph.
Then write the linear inequality for the graph.



Line:

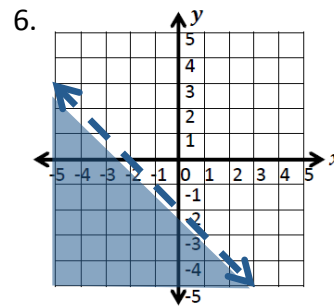
Shading:

*Symbol:

Slope:

y-int:

Linear Inequality:



Line:

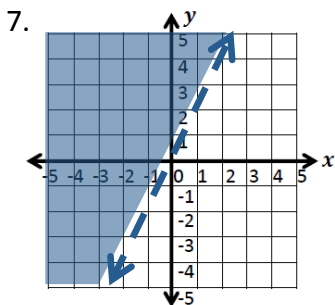
Shading:

*Symbol:

Slope:

y-int:

Linear Inequality:



Line:

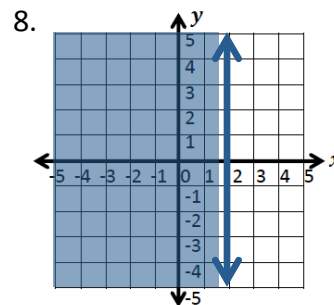
Shading:

*Symbol:

Slope:

y-int:

Linear Inequality:



Line:

Shading:

*Symbol:

Slope:

y-int:

Linear Inequality:

Directions for 9-12: Graph each linear inequality below.

First, identify the y-intercept, slope, type of line, and shading each graph will have.

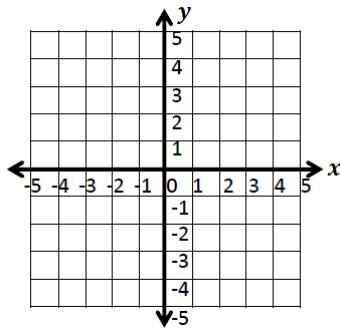
9. Linear Inequality: $y \leq \frac{3}{2}x + 2$

y-int:

Slope:

Line:

Shading:



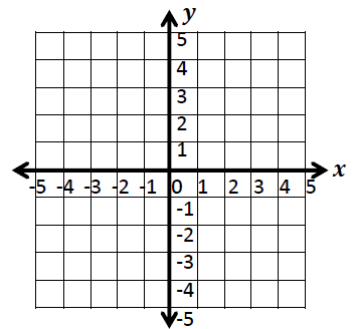
10. Linear Inequality: $y > x + 1$

y-int:

Slope:

Line:

Shading:



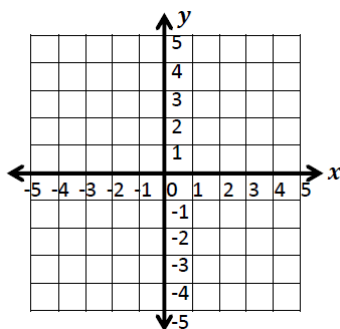
11. Linear Inequality: $y \geq -3x + 2$

y-int:

Slope:

Line:

Shading:



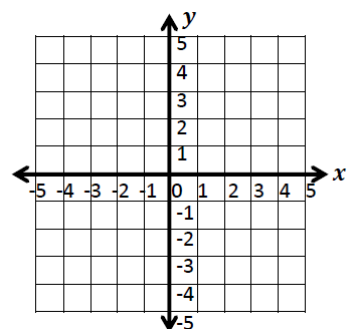
12. Linear Inequality: $y < 2$

y-int:

Slope:

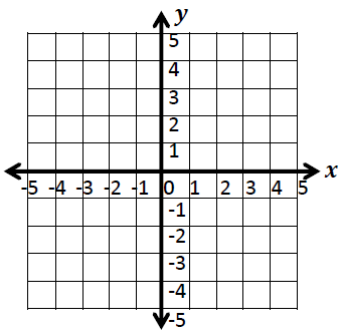
Line:

Shading:

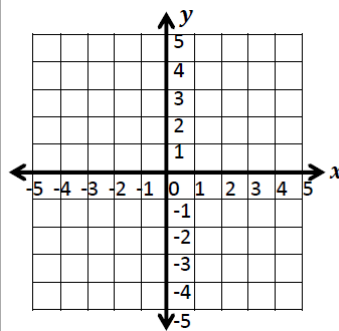


Directions for 13-16: Solve for y. Then graph the linear inequality.

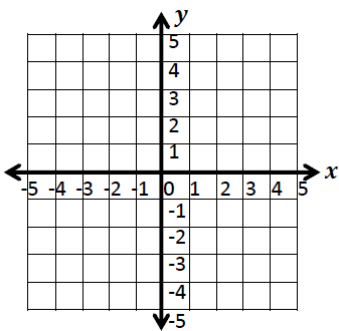
13. Linear Inequality: $2x + 2y > 4$



14. Linear Inequality: $x - 2y \leq -6$



15. Linear Inequality: $-2x - 3y > 6$



16. Linear Inequality: $-4x + 2y \leq 0$

