

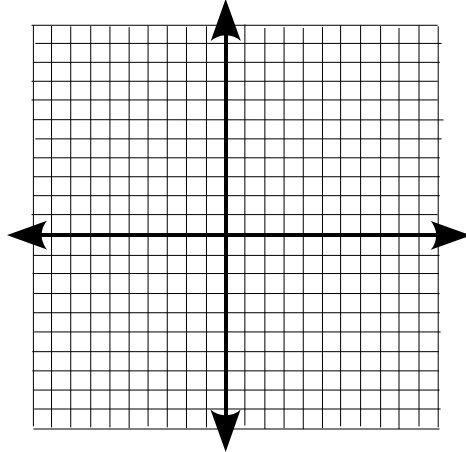
Name: _____

MR. C: THE DOUBLE INTERCEPT METHOD AND SLOPE

Warming Up With the Double Intercept Method

Directions: Find the x and y intercepts of the following lines, graph them as points, and draw the lines.

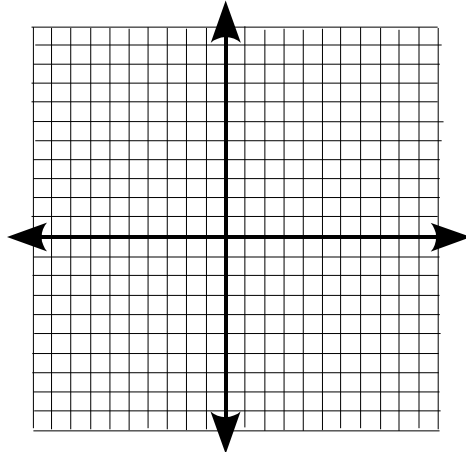
1.) $8x + 6y = 24$



x -intercept= _____

y -intercept= _____

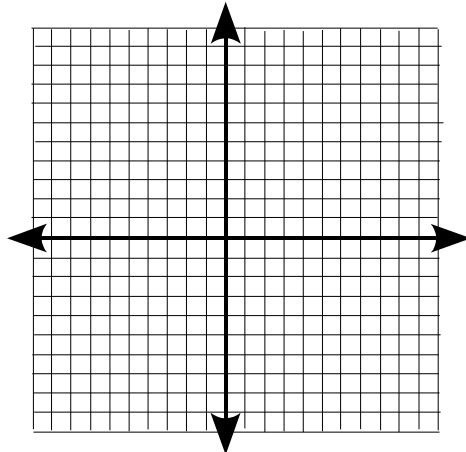
2.) $8x - 6y = 24$



x -intercept= _____

y -intercept= _____

3.) $6x - 6y = 24$



x -intercept= _____

y -intercept= _____

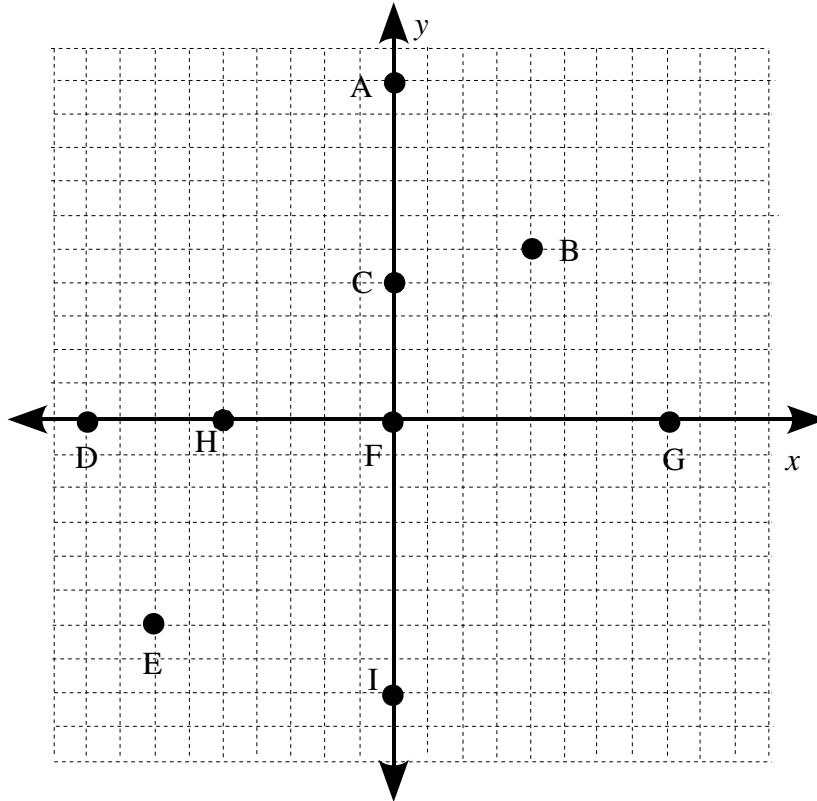
Where The Axes Lie...

1.) Find the values of the ordered pairs in the graph below:

A.) (_____, _____) B.) (_____, _____) C.) (_____, _____)

D.) (_____, _____) E.) (_____, _____) F.) (_____, _____)

G.) (_____, _____) H.) (_____, _____) I.) (_____, _____)



2.)

a.) For the above problem, which points (out of A through I) were on the x axis?

b.) What was the y value for these points?

c.) From the answer that you obtained in part (b.), you could say that any point lying on the x axis will have a y value of _____

3.)

a.) For the above problem (problem 1), which points (out of A through I) were on the y axis?

b.) What was the x value for these points?

c.) From the answer that you obtained in part (b.), you could say that any point lying on the y axis will have an x value of _____

Intercepts Notes

1.) The x -intercept of any line is a point on the x axis. Therefore all x -intercepts have a y -value of _____.

2.) The y -intercept of any line is a point on the y axis. Therefore all y -intercepts have an x -value of _____.

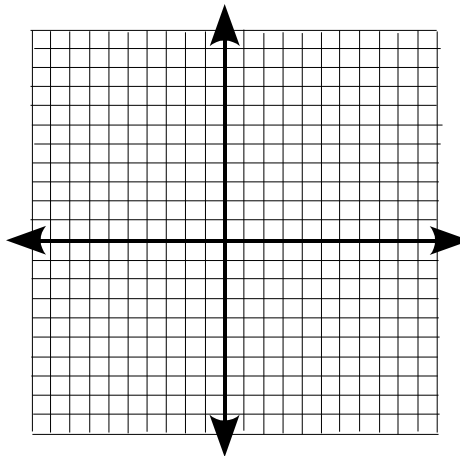
The Double Intercept Method Using Points As Answers:

Directions: Find the x and y intercepts of the following lines, graph them as points, and draw the lines.

1.) $5x + 3y = 15$

x -intercept is at point (_____, _____)

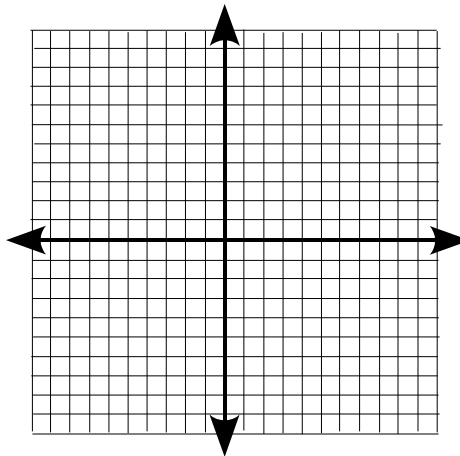
y -intercept is at point (_____, _____)



2.) $3y = 15 + 5x$

x -intercept is at point (_____, _____)

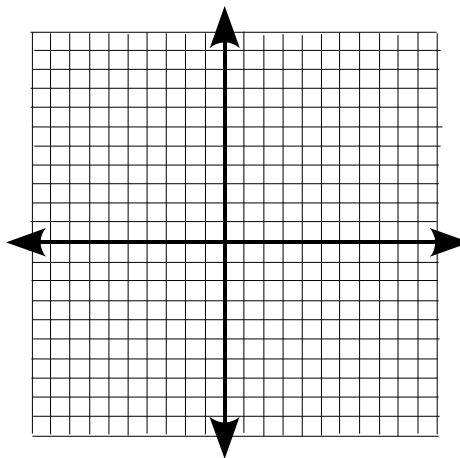
y -intercept is at point (_____, _____)



3.) $-2x = 4y - 20$

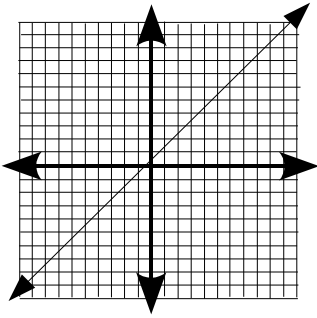
x -intercept is at point (_____, _____)

y -intercept is at point (_____, _____)

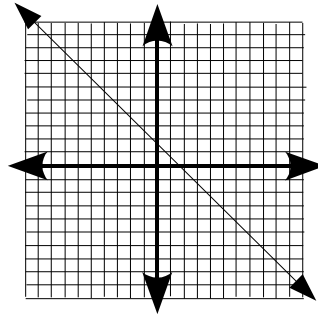


The Slope Is ...

Decide whether the slope of the following lines is positive or negative.



a.) The slope is _____.



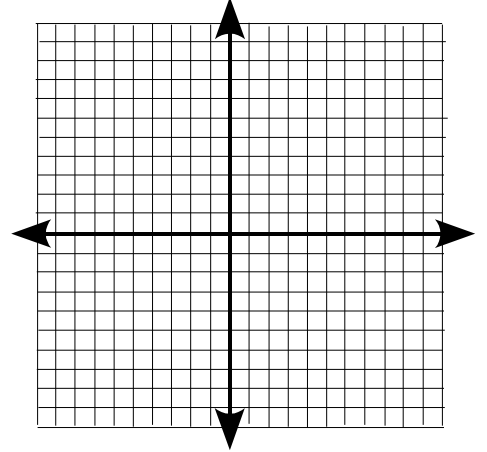
b.) The slope is _____.

Directions: Find the x and y intercepts of the following lines, graph the intercepts, draw the lines, and tell whether the slopes are positive or negative.

1.) $2x - y = 8$

x -intercept is at point (_____, _____)

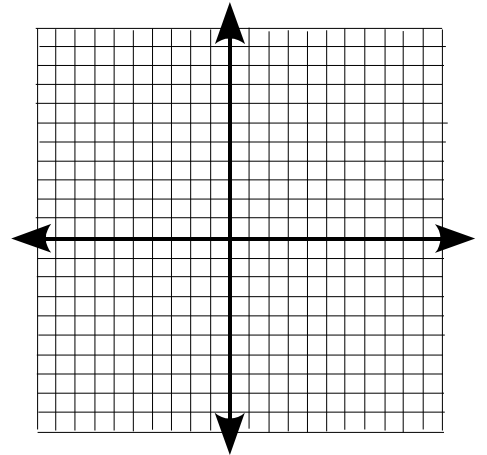
y -intercept is at point (_____, _____) The slope is _____.



2.) $8y - 5x = 40$

x -intercept is at point (_____, _____)

y -intercept is at point (_____, _____) The slope is _____.



3.) $9y + 2x + x = 18$

x -intercept is at point (_____, _____)

y -intercept is at point (_____, _____) The slope is _____.

