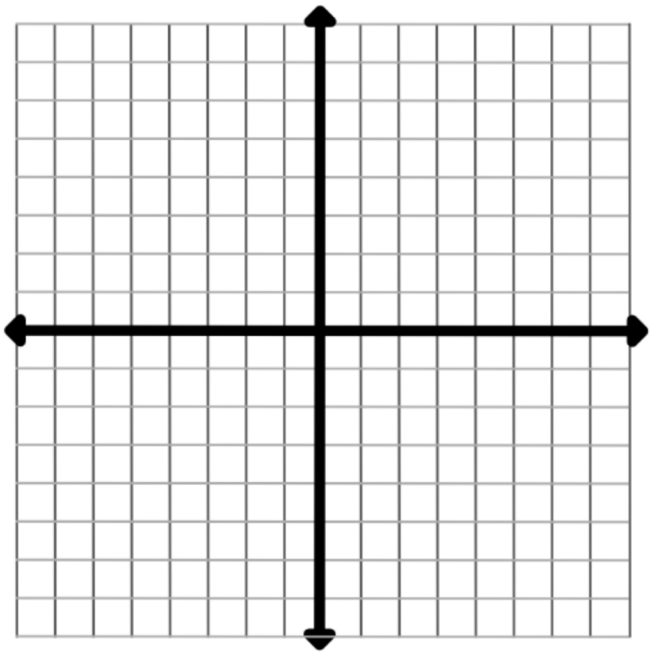
Name: _____ Pd: _____ Date: _____

_____ Plane



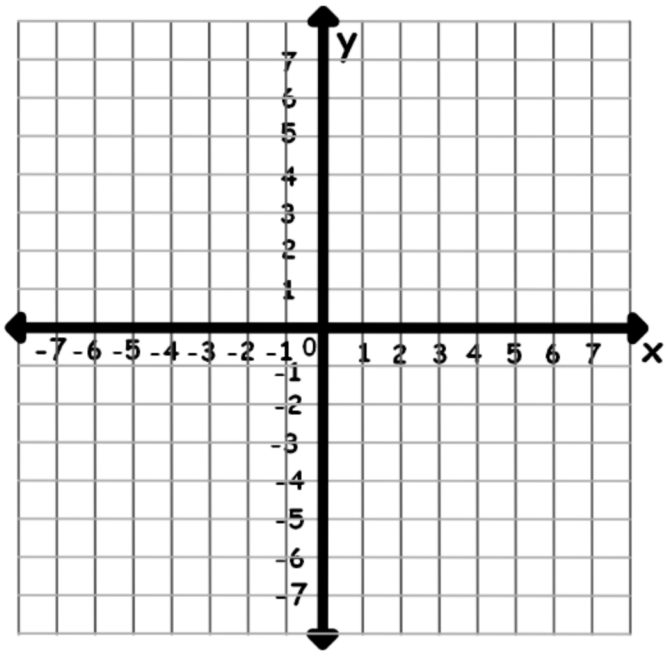
(1) Label the four quadrants.

(2) Label the horizontal axis (x-axis)

(3) Label the vertical axis (y-axis)

(4) Label the origin (0, 0)

(c)kt



Plot the following points:

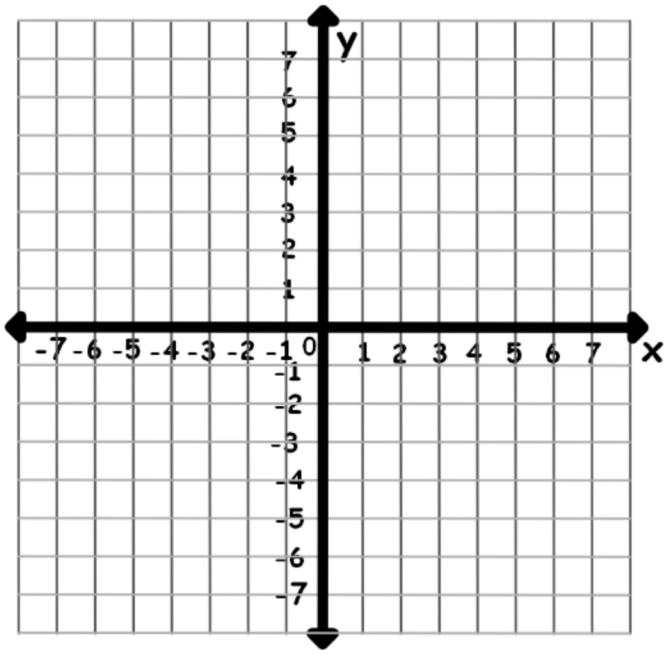
(0,5)
(0,1)
(0, -2)
(0, -5)

What do the points above have in common?

Do the points above lie on the x-axis or the y-axis? _____

What can you conclude? **If the _____ coordinate of a point is zero, then the point lies on the _____ axis.**

(c)kt



Plot the following points:

(5, 0)
(2, 0)
(-3, 0)
(-5, 0)

What do the points above have in common?

Do the points above lie on the x-axis or the y-axis? _____

What can you conclude? **If the _____ coordinate of a point is zero, then the point lies on the _____ axis.**

(c)kt

Graphing from Intercepts

The x-intercept of a line is the _____ where the line crosses the ___ - axis.

The y-coordinate for all points on the x-axis is _____ .

The y-intercept of a line is the _____ where the line crosses the ___ - axis.

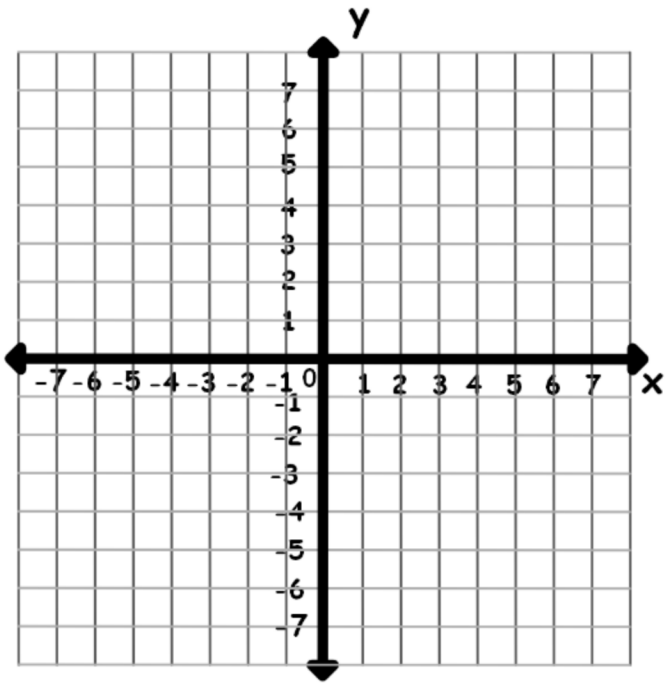
The x-coordinate for all points on the y-axis is _____ .

The following equations are linear equations. Graph each line by finding the x-intercept and the y-intercept.

(c)kt

$2x + y = 4$

Find the x-intercept and then plot it.



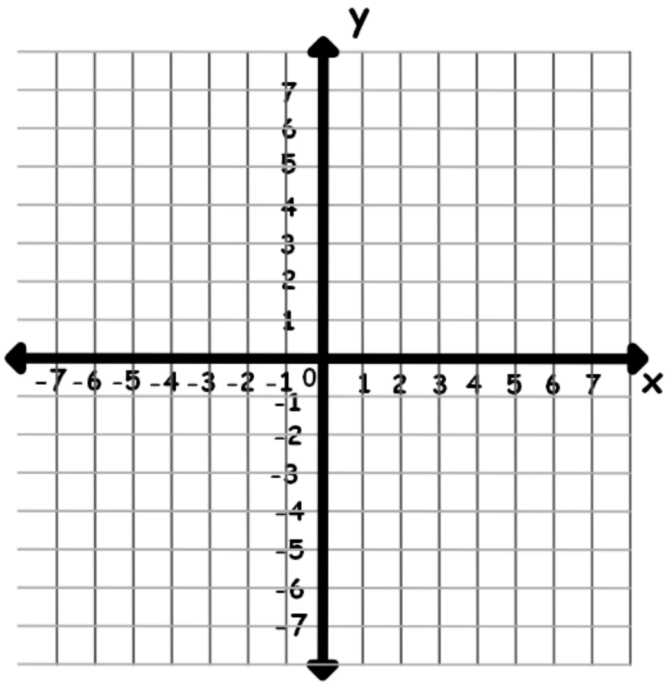
Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$x - 3y = 6$

Find the x-intercept and then plot it.



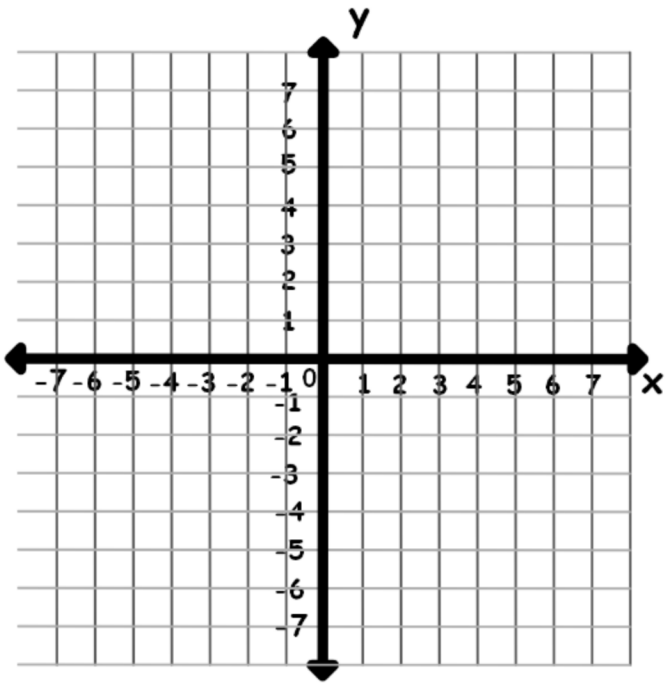
Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$x + y = -3$

Find the x-intercept and then plot it.



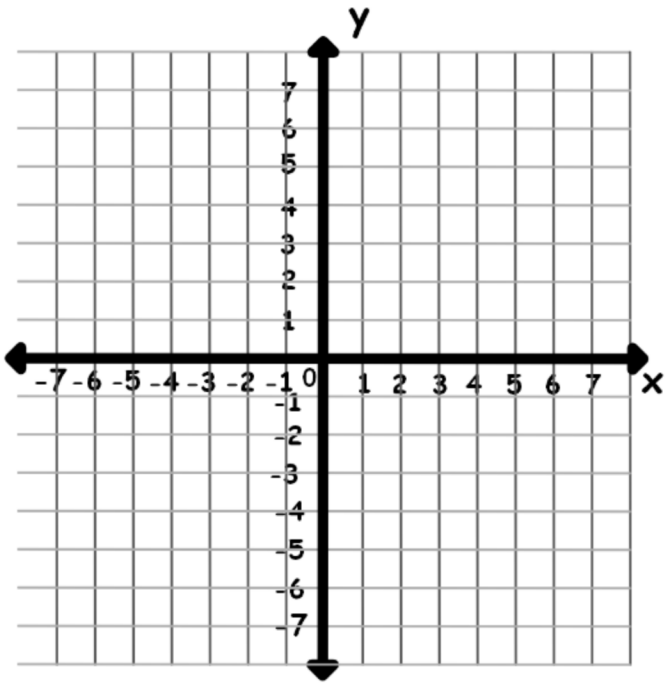
Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$x + 5y = 0$

Find the x-intercept and then plot it.

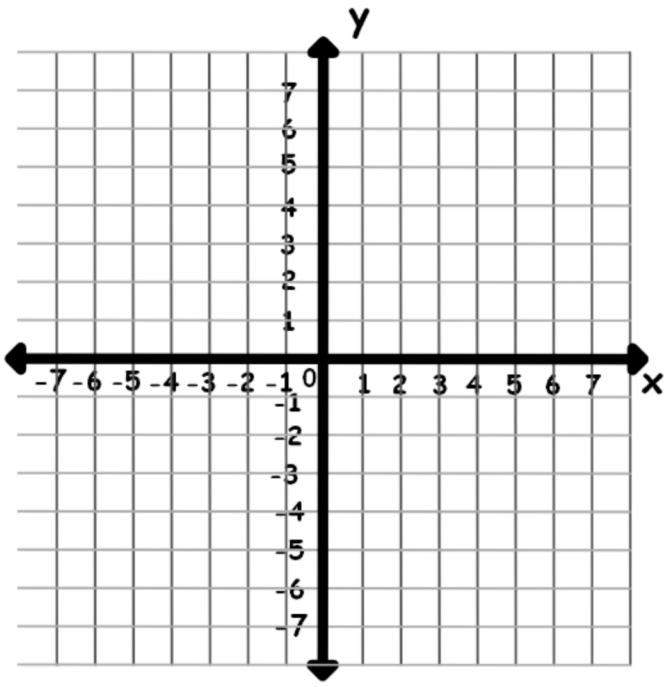


Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$x + 2y = 8$



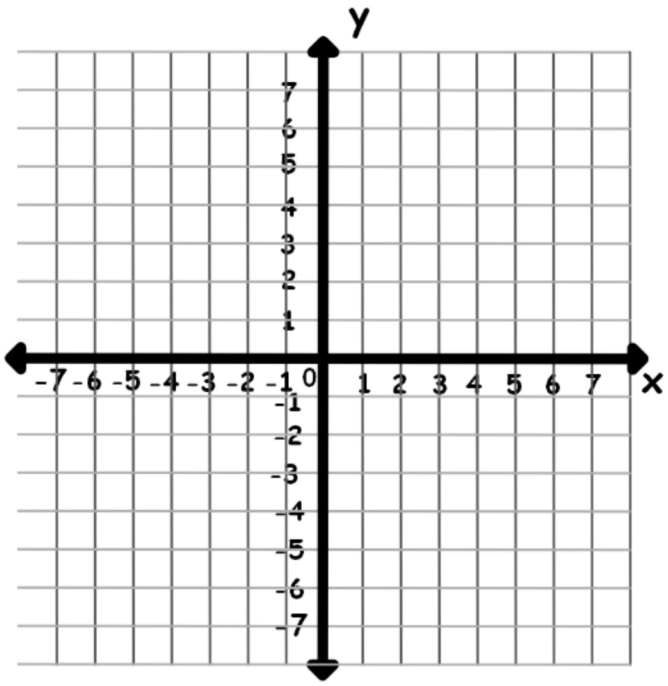
Find the x-intercept and then plot it.

Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$4x - 2y = 8$



Find the x-intercept and then plot it.

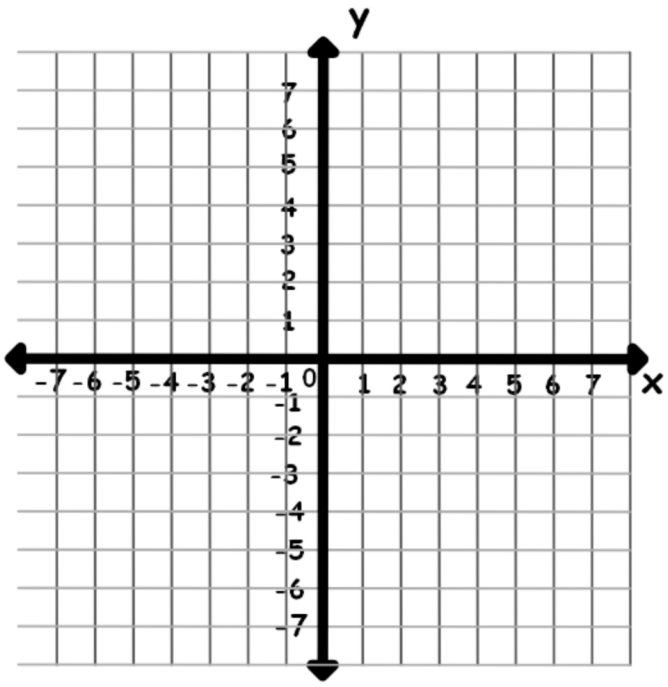
Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$-3x + 5y = 15$

Find the x-intercept and then plot it.



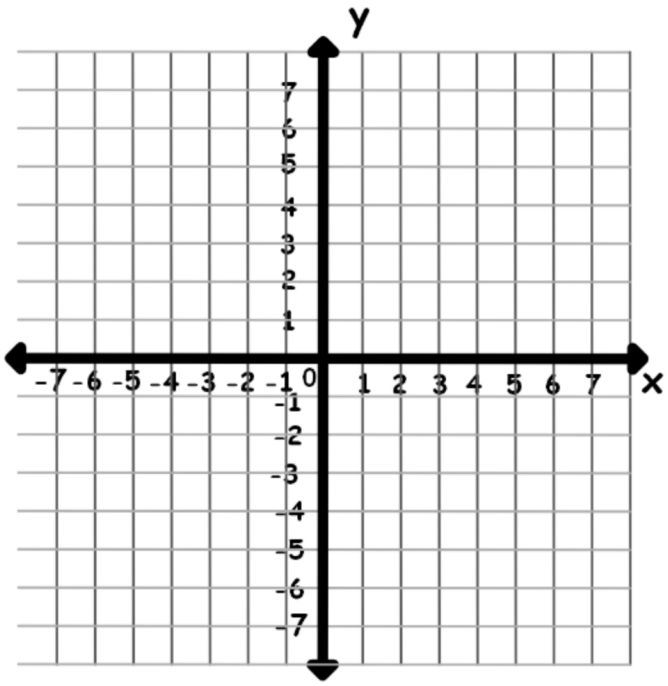
Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt

$-x - 2y = 6$

Find the x-intercept and then plot it.



Find the y-intercept and then plot it.

Draw a line <u>through</u> the two points.

(c)kt