

Chapter 8 section 1
Cartesian Coordinate System

Ordered pair (x, y) where x and y are whole number

The order matters

(x, y) and (y, x) are different.

Class ordered pairs $(2, 4)$ and $(4, 2)$ are different locations in the classroom.

Cartesian coordinate System

Rectangular coordinate system.

Two sets of axes.

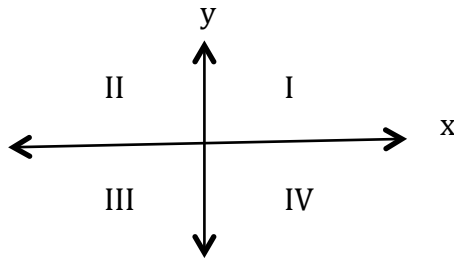
X axes horizontal line place numbers on this line similar to the number line.

y axes vertical line place numbers on this line similar to a thermometer.

Where the x and y axes meet, origin

Label the axes

Quadrants

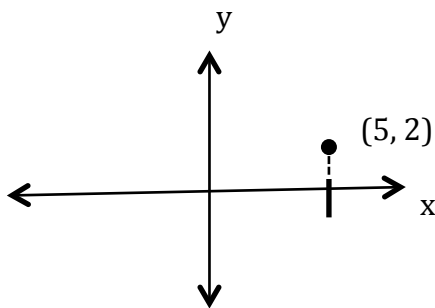


Plot points

plot ordered pairs.

$(4, 2)$

Start at the origin and go 4 units in the positive direction (right) on the x -axis, then move positive (up) on the y -axis 2 units. Where you stop, place a dot and that dot is the location of $(4, 2)$.



Set up a coordinate system and plot the following points:

a) $(3, 2)$ b) $(-2, 5)$ c) $(-3, -4)$ d) $(4, -3)$