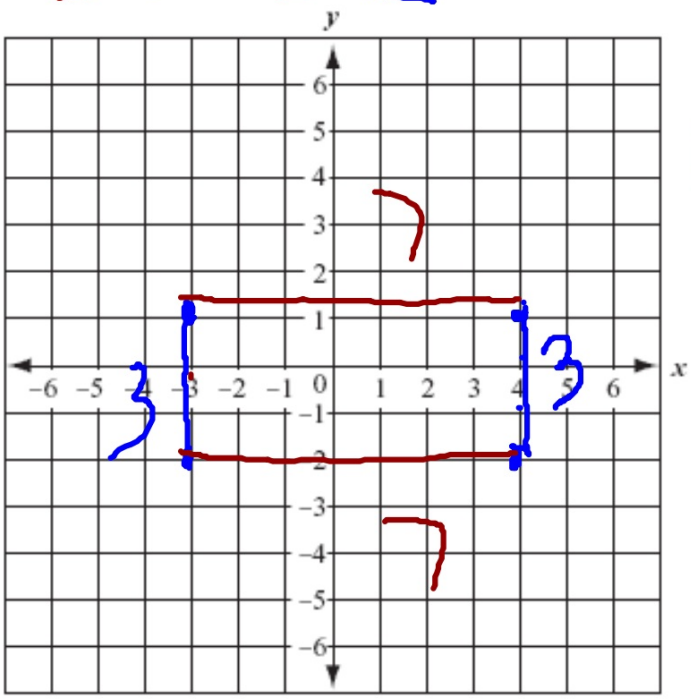
The Coordinate Plane Algebra Bellwork - November 29, 2011

Find the perimeter of a rectangle with corners at the following:

(4, 1), (−3, 1), (−3, −2), and (4, −2)



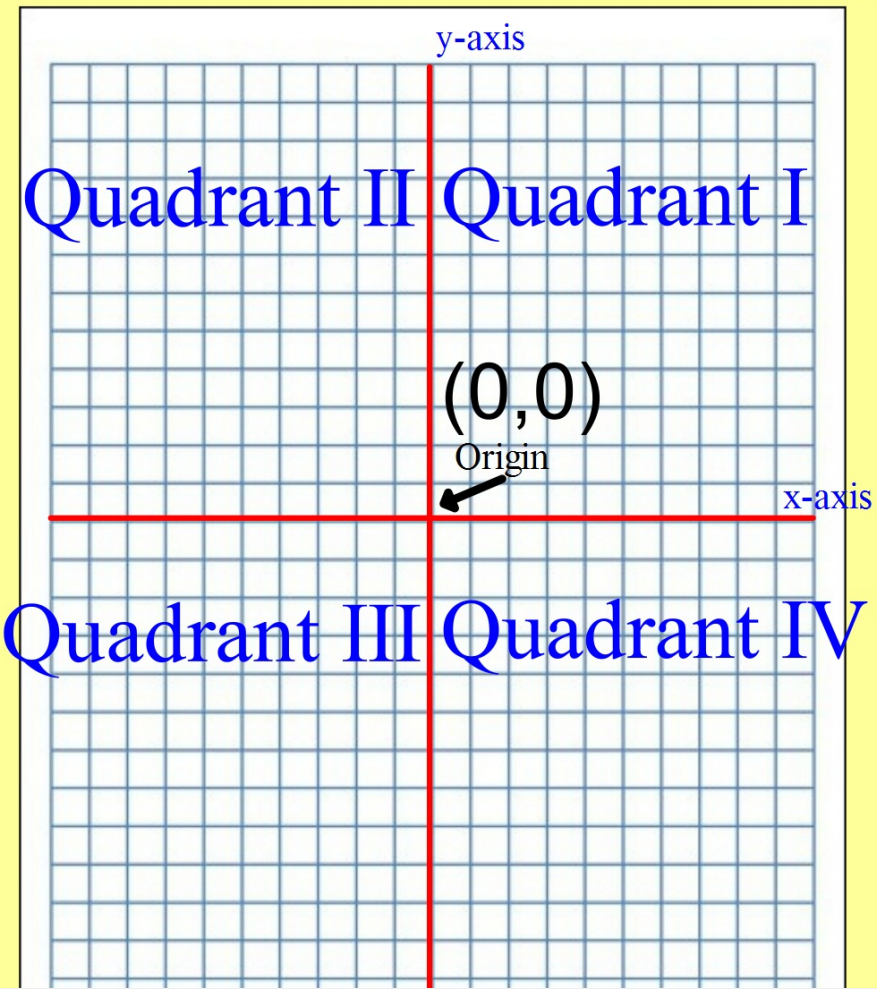
P = 20

Due Tomorrow: p.178 #1-10, 15-25, 29-30

Objective: Today we will graph points on the **Coordinate Plane**.

Language Objective: Today we will practice writing and speaking the new vocabulary for plotting points in the coordinate plane.

Coordinate Plane

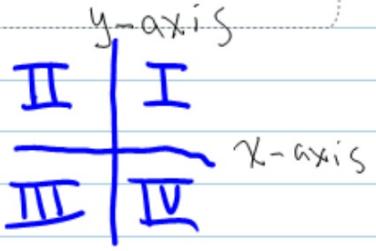


Ordered Pair (coordinates)

(x, y)

x-coordinate

y-coordinate



Ordered pair

(x, y) "location"

x-coordinate y-coordinate

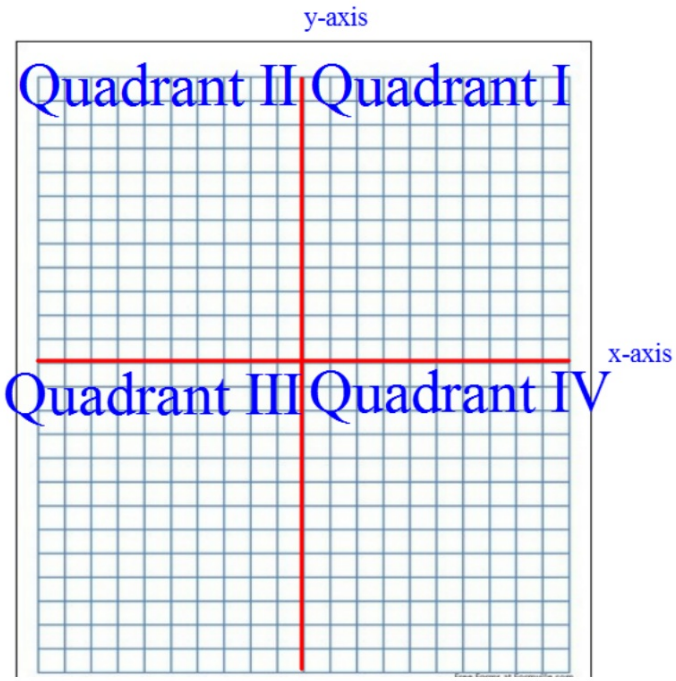
$(+,+) \rightarrow$ I $(-,+) \rightarrow$ II

$(-,-) \rightarrow$ III $(+,-) \rightarrow$ IV

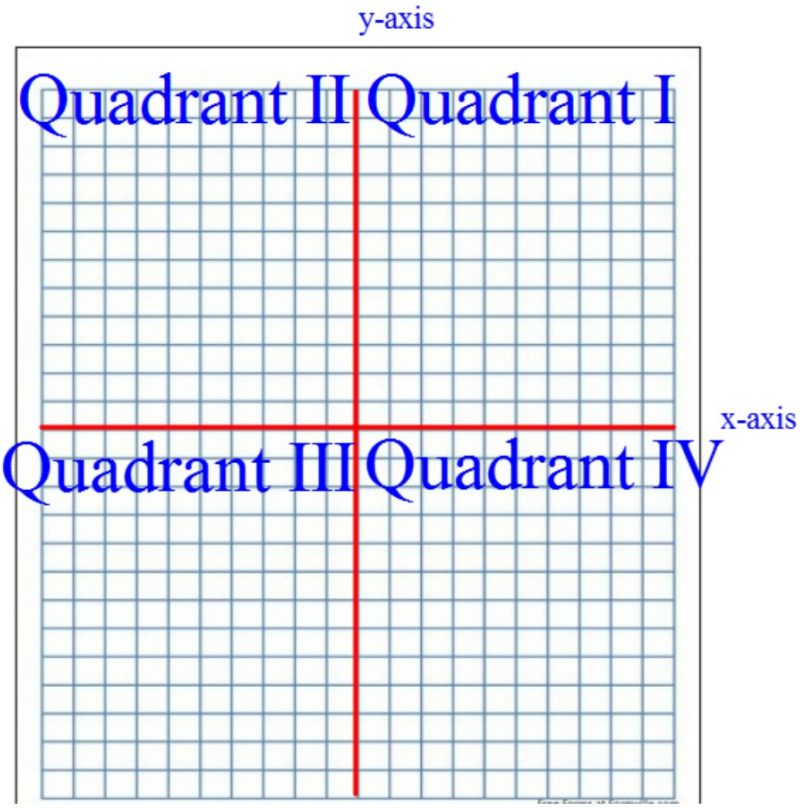
$(0,0) \rightarrow$ origin

$(0,10) \rightarrow$ y-axis $(-5,0) \rightarrow$ x-axis

The point _____ lies in Quadrant _____.



The point (6, 0) lies on the x-axis.



origin

y-axis

Name the coordinates of each point on the graph at the right.

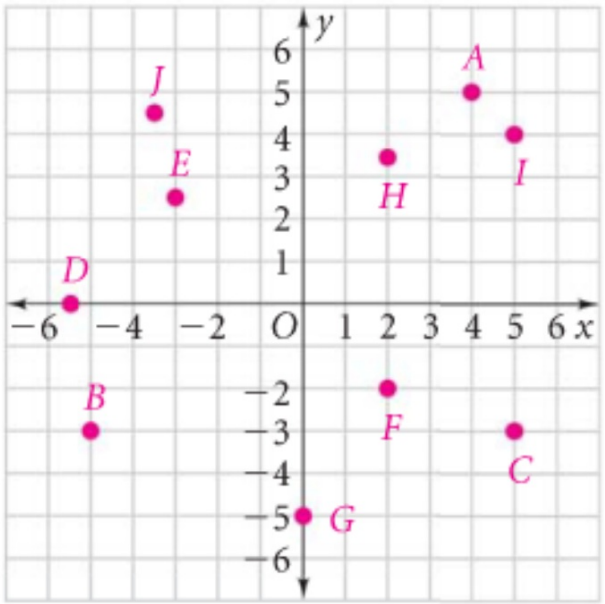
1. A **2.** B

3. C **4.** D $(-5\frac{1}{2}, 0)$

5. E $(-3, 2\frac{1}{2})$ **6.** F

7. G **8.** H

9. I **10.** J



Graph the points on the same coordinate plane.