

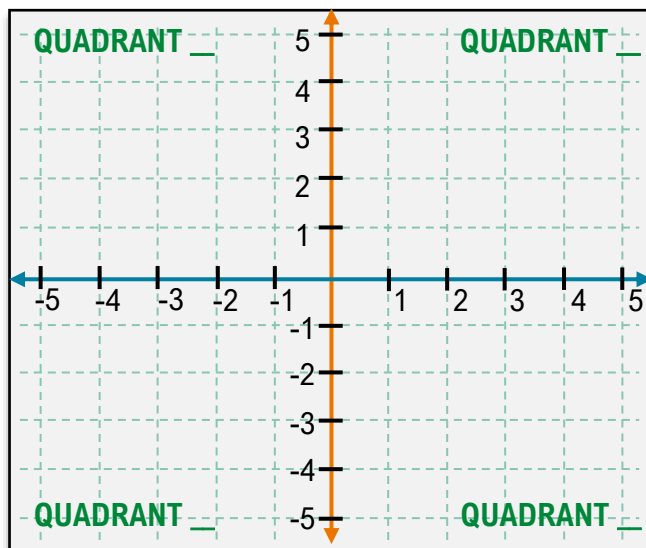
TOPIC: RECTANGULAR COORDINATE SYSTEM

Graphs & the Rectangular Coordinate System

- Graphing in this course usually involves plotting _____ or _____ on the rectangular coordinate system.

Rectangular Coordinate System (“Cartesian Plane”): 2 perpendicular _____ form a 2-D plane.

- Horizontal axis is the x-axis
- Vertical axis is the y-axis
- Ordered pairs / points:** Position *always* in form _____
- Origin:** point (____,____) where x & y axes intersect
 - x values are [+ | -] [RIGHT | LEFT] of origin
 - y values are [+ | -] [ABOVE | BELOW] origin
- Quadrants:** x & y axes divide graphs into 4 _____.
 - Q1 starts at top-right, #s continue counter-clockwise



EXAMPLE: Plot the points **A** (4, 3), **B** (-3, 2), **C** (-2, -3), **D** (5, -4), **E** (0, 0), **F** (0, -3) on the graph above.

EXAMPLE: Graph the points **W** (1, -2), **X** (5, 2), **Y** (-3, -4), **Z** (-4, 3). Identify the **quadrant** of each point.

