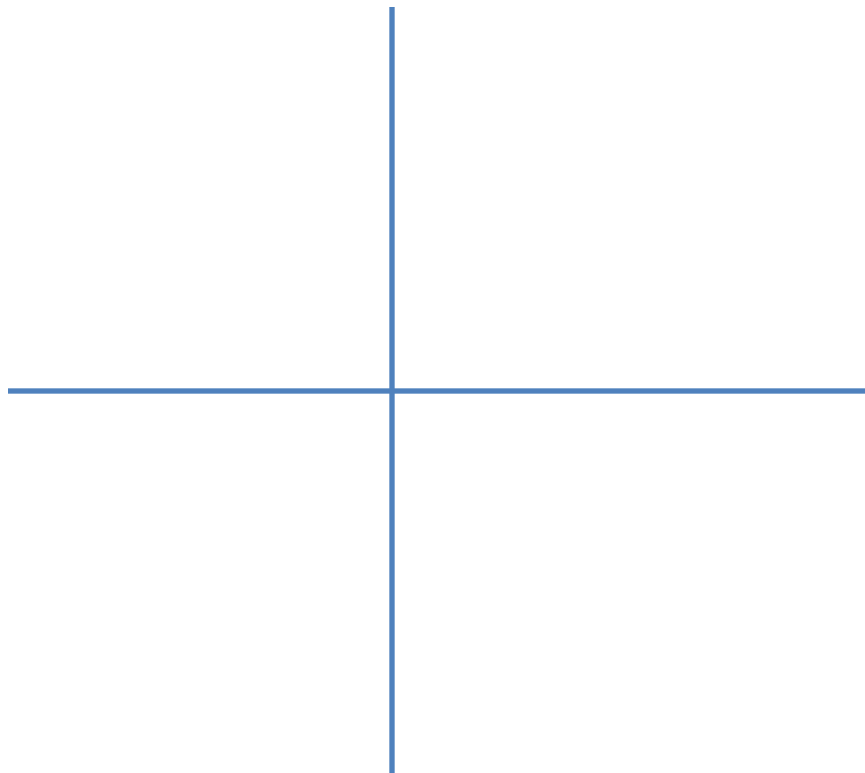


Cartesian System

5.3

- The Cartesian system is named after a French philosopher, scientist and mathematician Rene Descartes who Latinized his name to Cartesius who lived in 17th century Europe. His most famous quote is: "I think, therefore I am."
- A Cartesian system in two dimensions divides a 2D plane in four quarters called **quadrants**.
- This division is done by two perpendicular axes:
 - The horizontal axis = _____
 - The vertical axis = _____
- The point of intersection of the two axis is called the _____



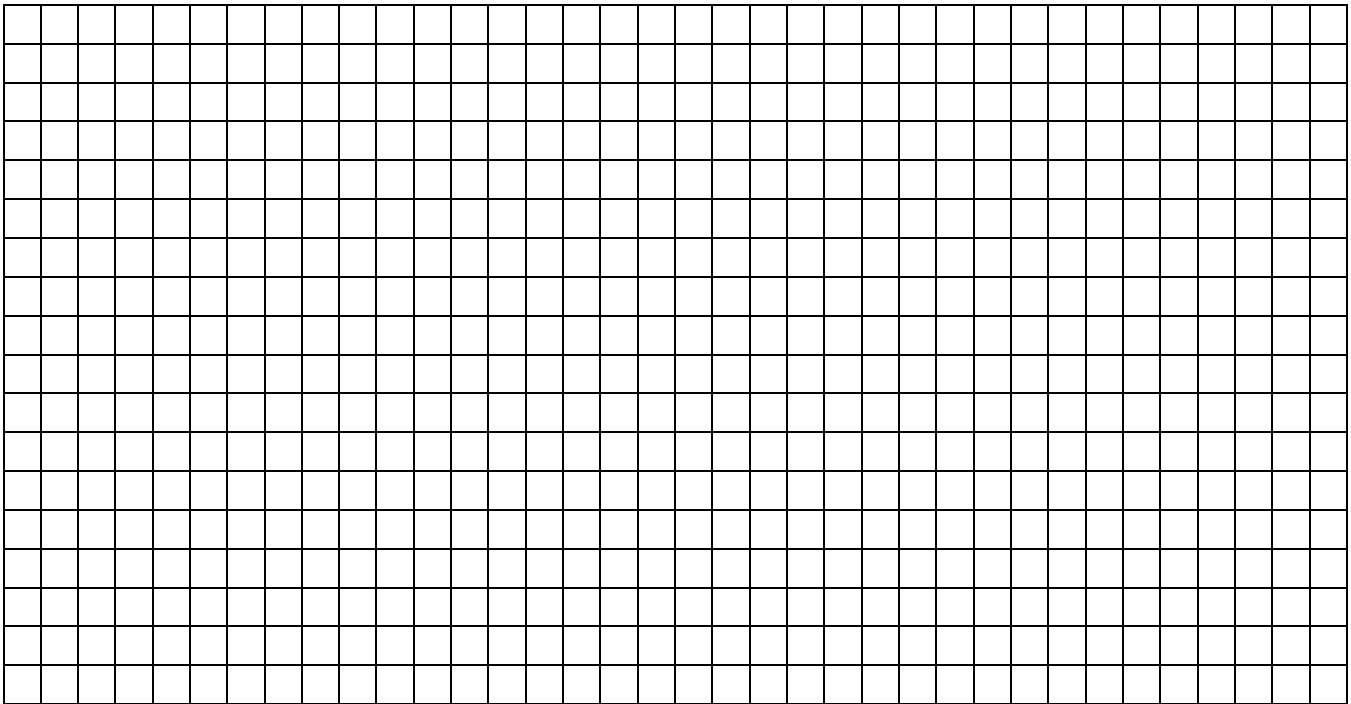
Plotting Points in the Cartesian = Coordinate System

Recall: Every point in a 2D plane can be described using two coordinates. These coordinates are written inside round brackets (parentheses) and are separated by a comma. Points are given labels using capital letters of English alphabet.

Task 1:

- Using a ruler and a pencil, draw in the horizontal axis and label it “x”. Then draw in the vertical axis and label it “y”. Aim for the origin in the center of the given grid.
- Plot and label the following points.

$A = (-4,8)$	$B = (2,-6)$	$C = (0,5)$	$D = (-4,8)$	$E = (-10,0)$	$F = (-4,-5)$
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- After plotting the above points, determine their quadrant:

Point	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>
Quadrant						