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## GRAPHING COORDINATES WORKSHEETS-I

1) Plot the coordinates given below in the plane:

a)  $(-1, 3)$

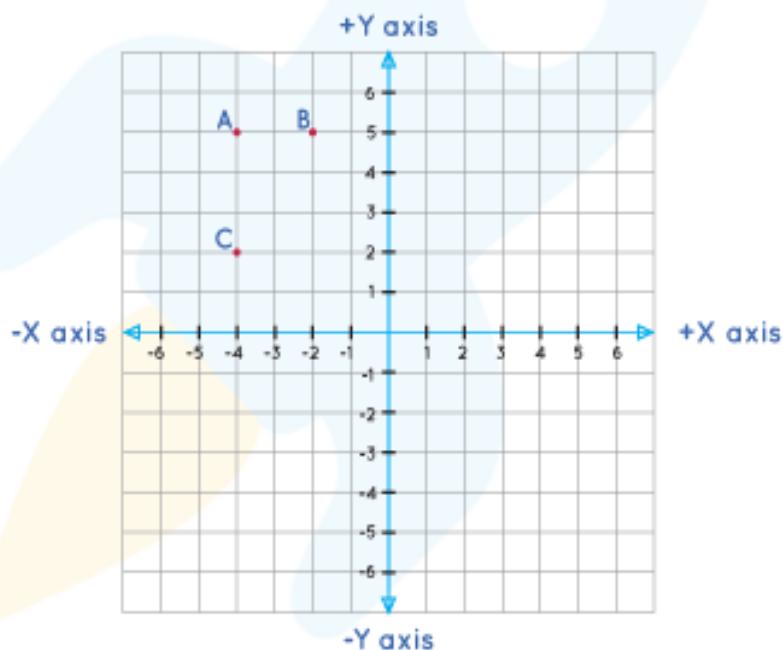
b)  $(0, 2)$

2) Write true or false for the given statements in the box given against each.

a) The point which lies on both the axes is called   
origin.

b) The point  $(2, -3)$  lies in the third quadrant.

Answer Q.3, Q4, and Q5 using the graph given below:



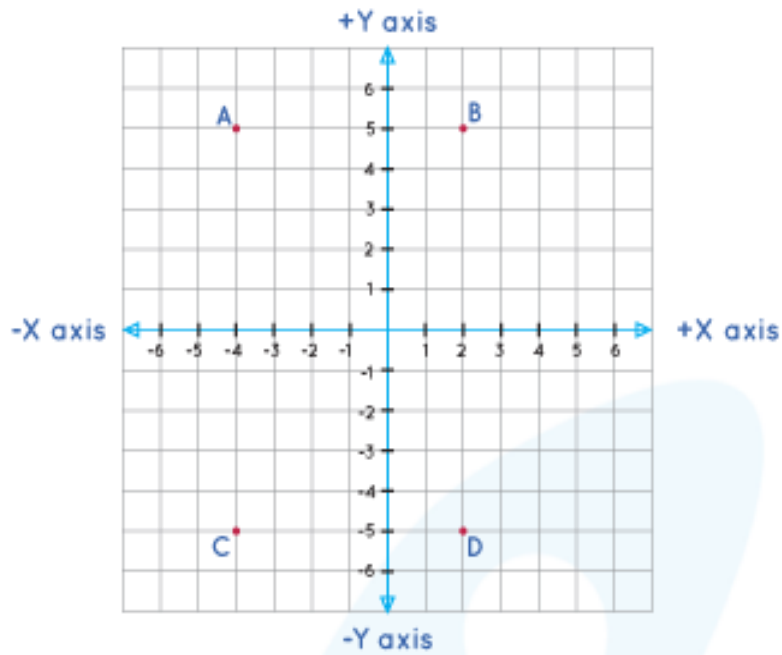
3) Write down the coordinates of A, B and C.

4) Plot D such that all four points form a rectangle.

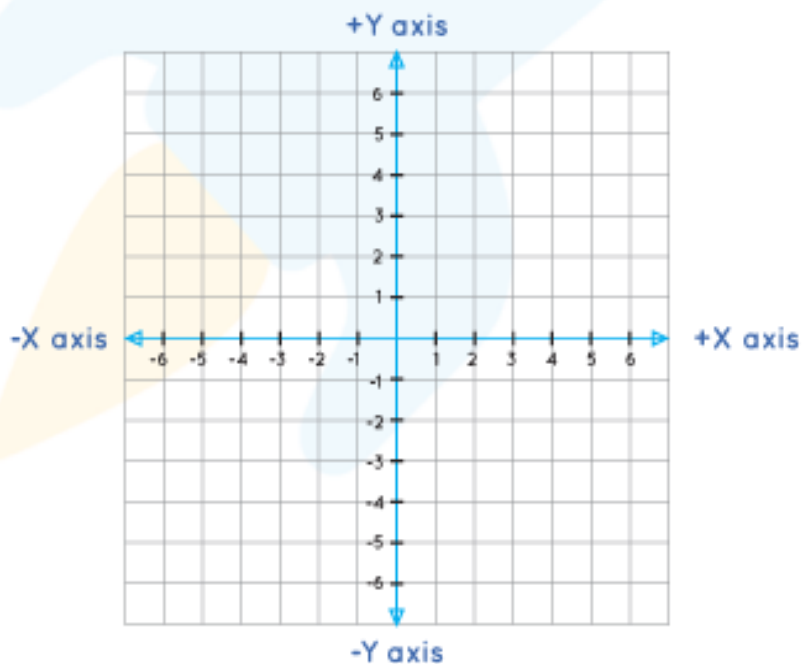
5) What are the coordinates of point D?

6) Draw an isosceles triangle in the coordinate plane and name the ordered pair of all the 3 points.

7) Identify the coordinates of the points A, B, C, and D in the following graph.



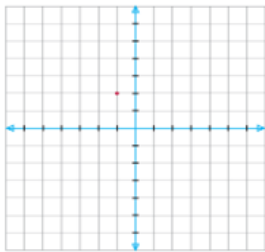
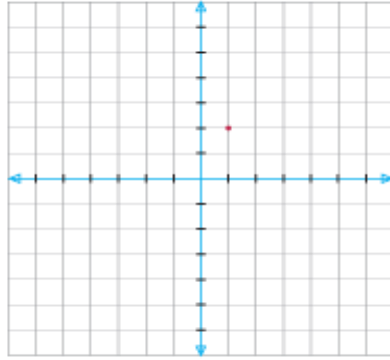
Use the following graph to answer Q.8 and Q.9.



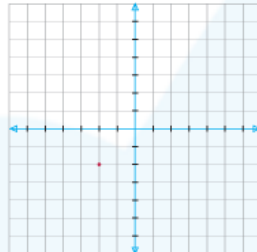
8) Plot a line joining points (1, 1) and (1, -1).

9) Find the intersection point of this line with the x-axis.

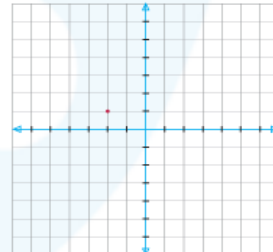
10) What will be the reflection of the given point across y-axis?



(a)



(b)



(c)

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- Gary Schwartz

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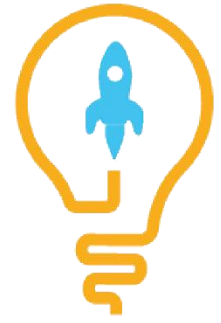
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**ANSWERS**

1)	
2)	a) True b) False
3)	$A(-4, 5)$ , $B(-2, 5)$ , $C(-4, 2)$
4)	
5)	$D(-2, 2)$
6)	
7)	$A(-4, 5)$ , $B(2, 5)$ , $C(-4, -5)$ , $D(2, -5)$
8)	
9)	$(1, 0)$
10)	a)

## FUN FACT

1. The name **Cartesian** comes from the French mathematician and philosopher René Descartes , who worked to merge [algebra](#) and Euclidean geometry.
2. The idea of this system was developed in 1637 in two works by Descartes.
3. **Cartesian coordinate system** is a coordinate system used to place points on a [Cartesian plane](#) using two numbers, usually called the *x-coordinate* and the *y-coordinate*.

