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## COORDINATE PLANE WORKSHEET-III

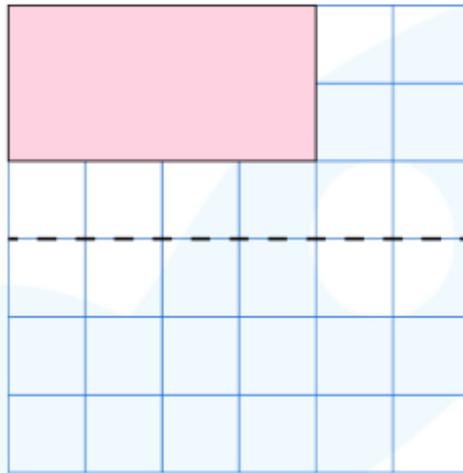
1) Plot the coordinates given below in the plane:

a)  $(-1, 1)$

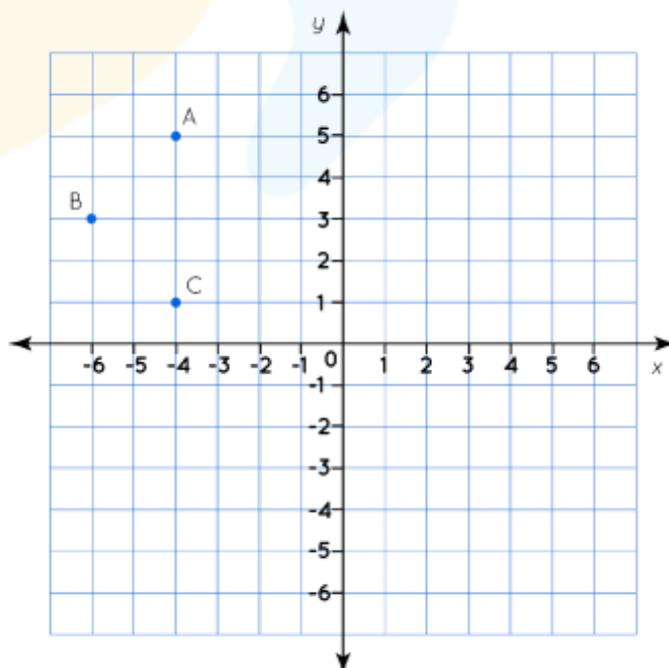
b)  $(3, 0)$

c)  $(-1, 4)$

2) Reflect the following shape in the mirror line in the plane.



3) Find the coordinates of D in the following plane to form a square.



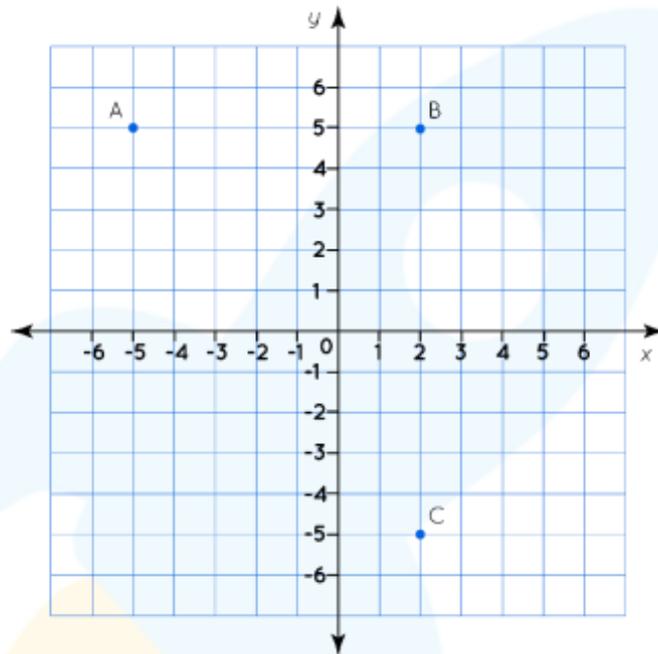
4) Plot the line joining points  $(-1, -3)$  and  $(3, 3)$  and find the point where it intersects the x-axis.

5) State whether true or false.

a) In the cartesian plane, the point  $(-4, -4)$  lies in the fourth quadrant.

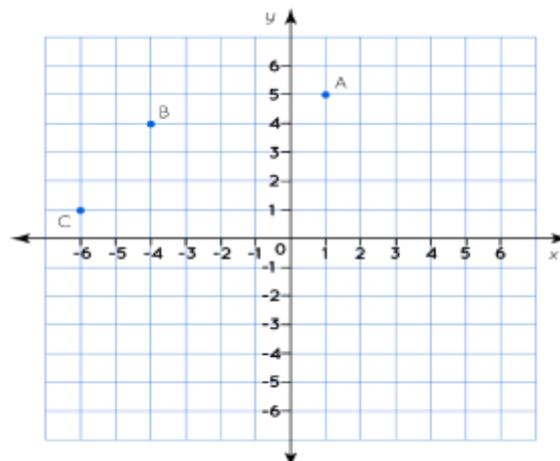
b) A cartesian plane is divided into 2 quadrants

6) Plot the coordinates of point D to form a rectangle



7) A shape in the coordinate plane has the following coordinates:  $(3, -3)$ ,  $(-1, 2)$ ,  $(1, -4)$ , and  $(2, -3)$ . Plot the points and identify the shape.

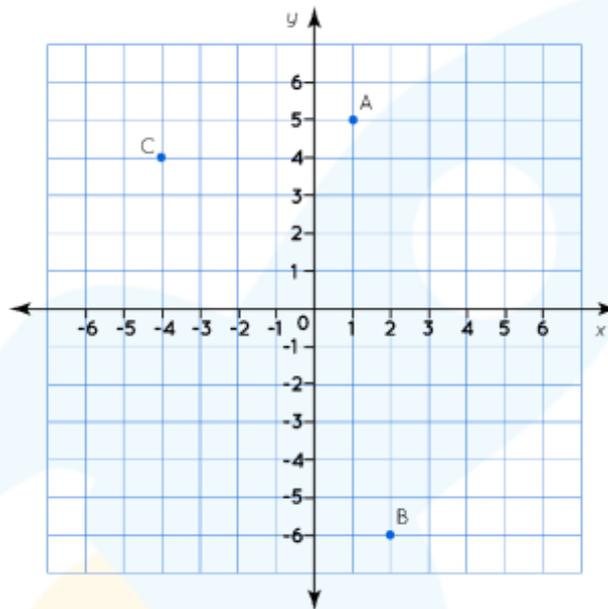
8) Find which point is located at each ordered pair.



- a)  $(-4, 4)$  - \_\_\_  
b)  $(-6, 1)$  - \_\_\_  
c)  $(1, 6)$  - \_\_\_

9) Identify the shape joining points  $(2, -2)$ ,  $(-2, 2)$ ,  $(2, 2)$ , and  $(-2, -2)$ .

10) Write the ordered pair for each point graphed below and name its quadrant.



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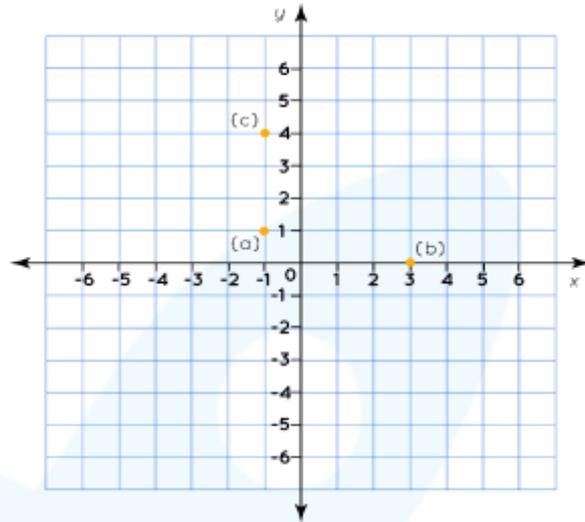
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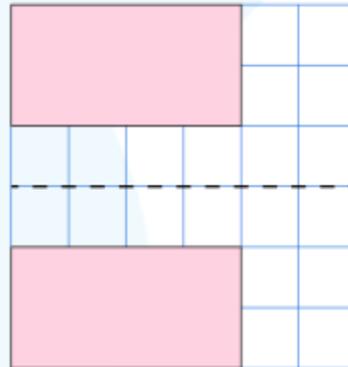


ANSWERS

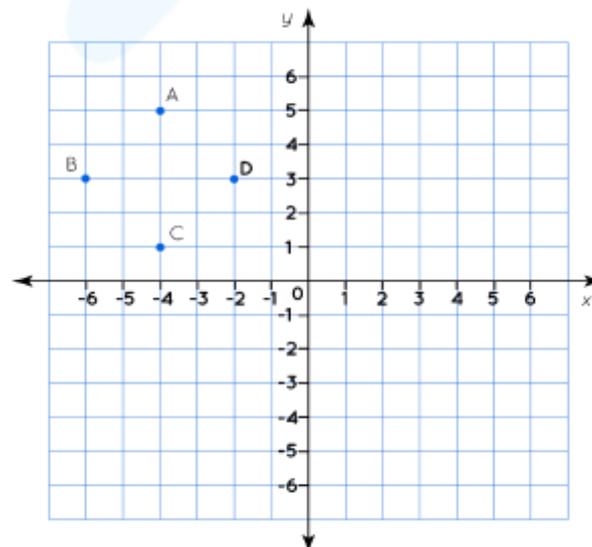
1)



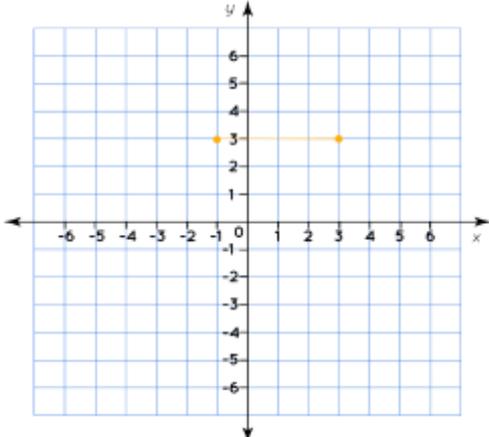
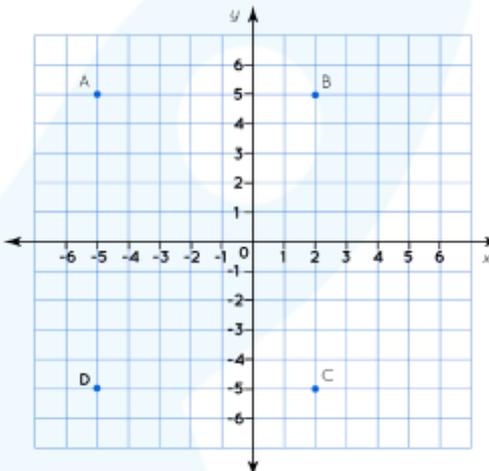
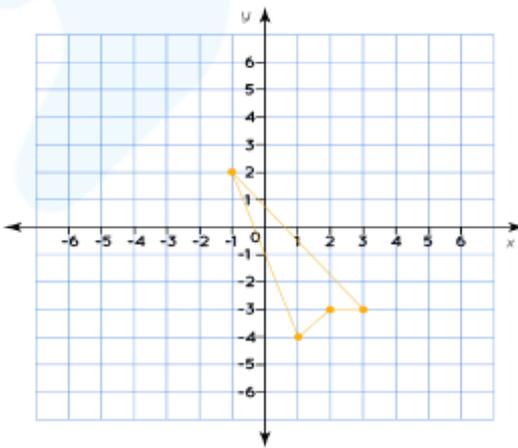
2)



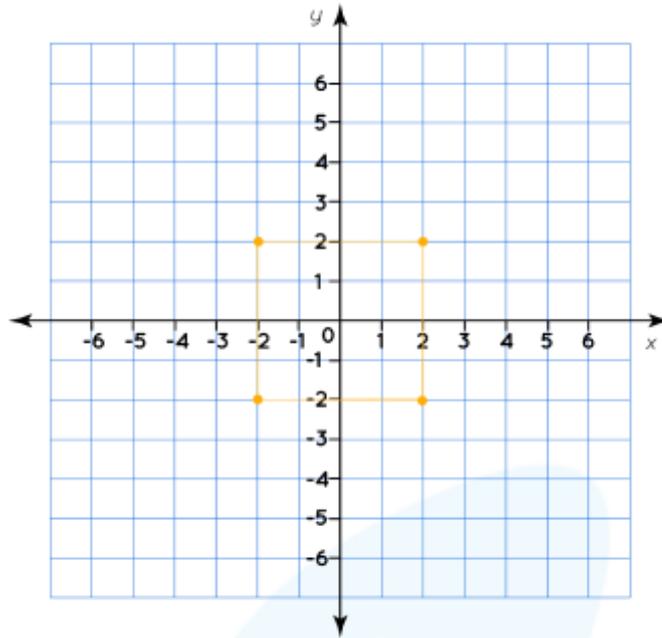
3)



D(-2, 3)

4)	 <p>(0, 3)</p>
5)	a) False b) False
6)	 <p>(-5, -5)</p>
7)	 <p>Quadrilateral</p>
8)	a) C b) B c) A

9)



Square

10)

Point A: (1, 5)- I quadrant  
Point B: (2, -6)- IV quadrant  
Point C: (-4, 4)- II quadrant

## FUN FACT

1. The invention of the **Cartesian Coordinate System** is credited to René Descartes.
2. A point in a coordinate plane is named by its ordered pair of the form  $(x, y)$ .
3. A coordinate plane is a two-dimensional plane formed by the intersection of a vertical line called Y-axis and a horizontal line called X-axis.

