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COORDINATE PLANE WORKSHEET-IV

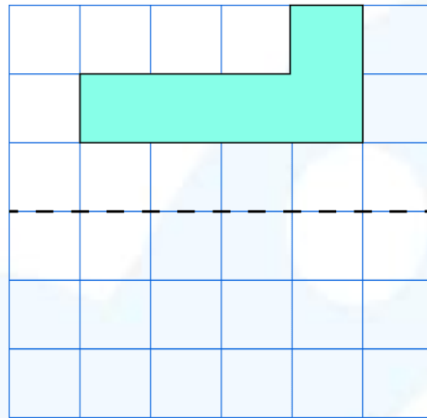
1) Plot the coordinates given below in the plane:

a) $(-2, 1)$

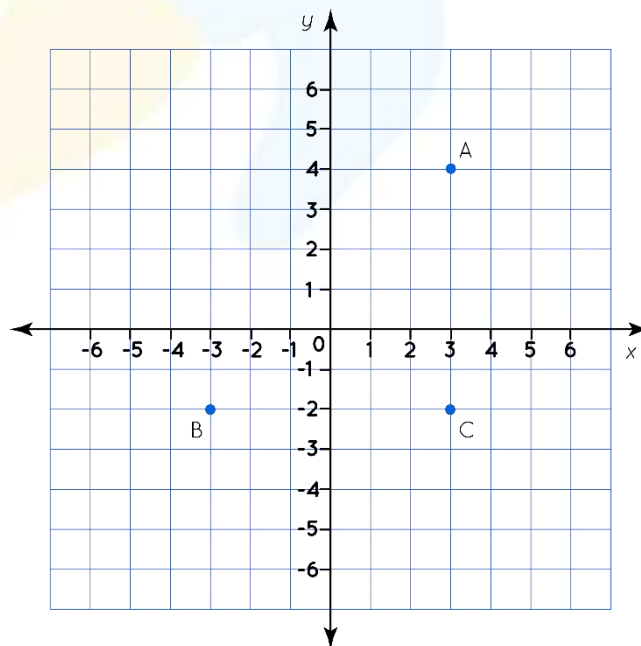
b) $(4, 0)$

c) $(-1, -4)$

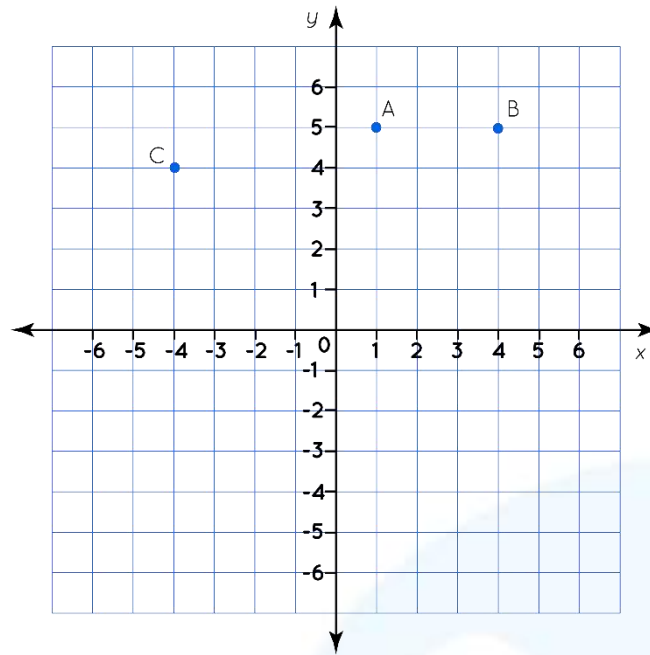
2) Reflect the following shape in the mirror line in the plane.



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

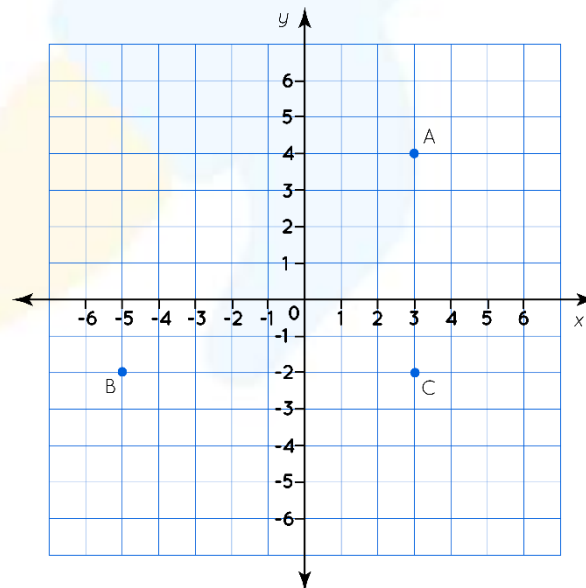


4) Find which point is located at each ordered pair.

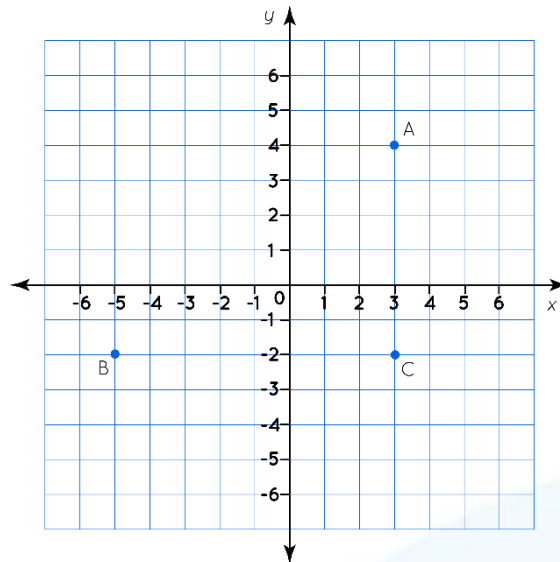


5) Identify the shape joining points $(1, -1)$, $(-1, 1)$, $(1, 1)$, and $(-1, -1)$.

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



7) Plot the coordinates of point D to form a rectangle.



- 8) A shape in the coordinate plane has the following coordinates: $(1, -3)$, $(-4, 2)$, $(1, -4)$, and $(-2, -3)$. Plot the points and identify the shape.
- 9) Plot the line joining points $(-1, -1)$ and $(1, 1)$ and find the point where it intersects the x-axis.
- 10) State whether true or false.
- a) In the cartesian plane, the point $(-3, -3)$ lies in the third quadrant.
 - b) A cartesian plane is divided into 4 quadrants.

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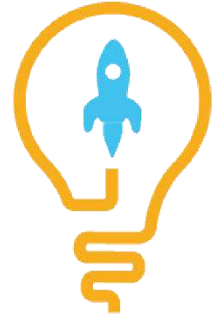
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

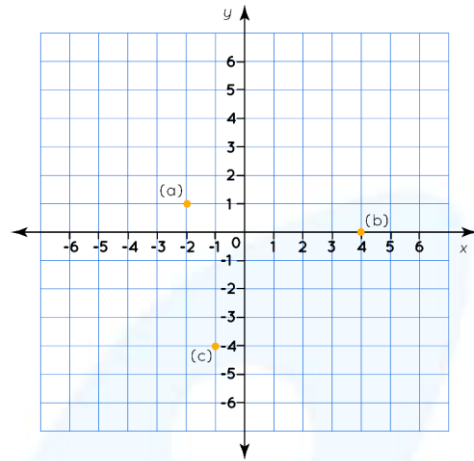
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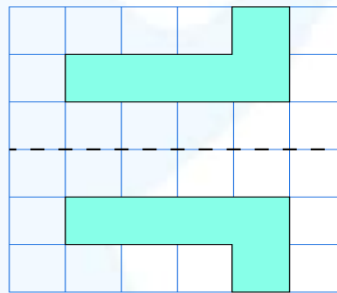


ANSWERS

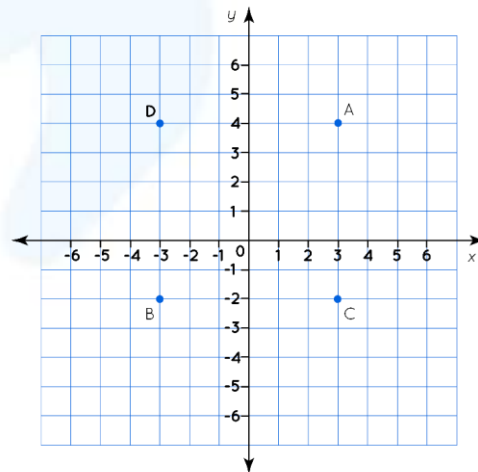
1)



2)



3)

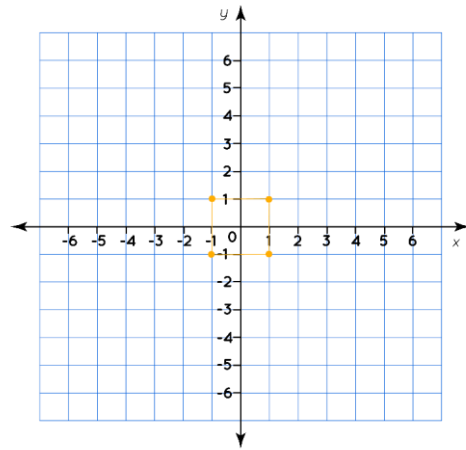


$D(-3, 4)$

4)

a) B b) A c) C

5)

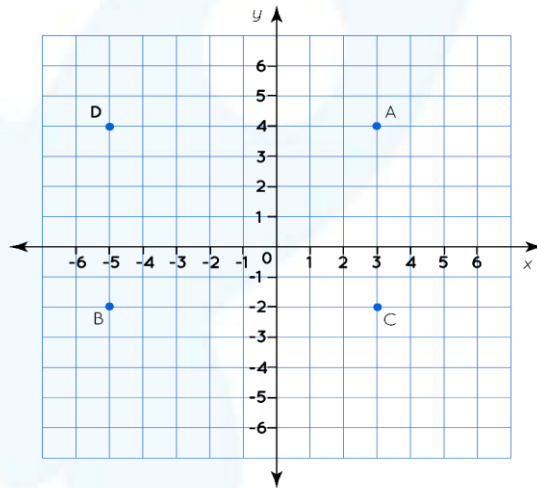


Square

6)

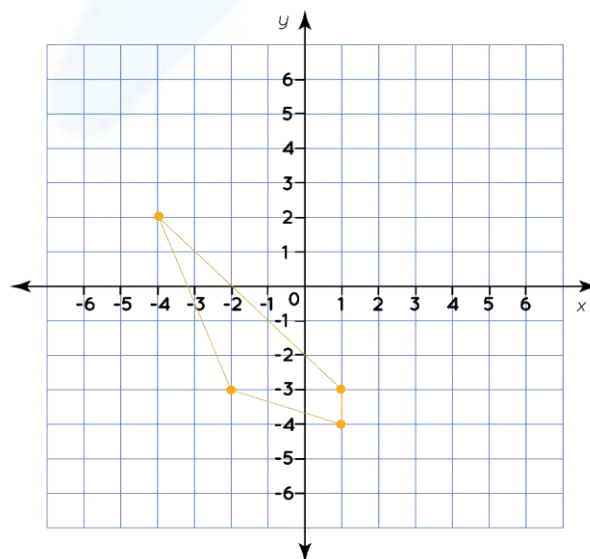
Point A: $(3, 4)$ - I quadrant
 Point B: $(-5, -2)$ - III quadrant
 Point C: $(3, -2)$ - IV quadrant

7)



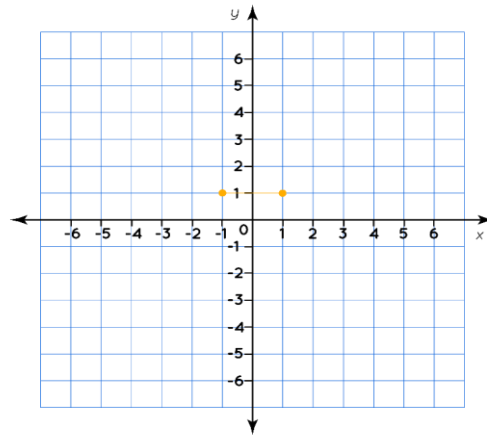
$D(-5, 4)$

8)



Quadrilateral

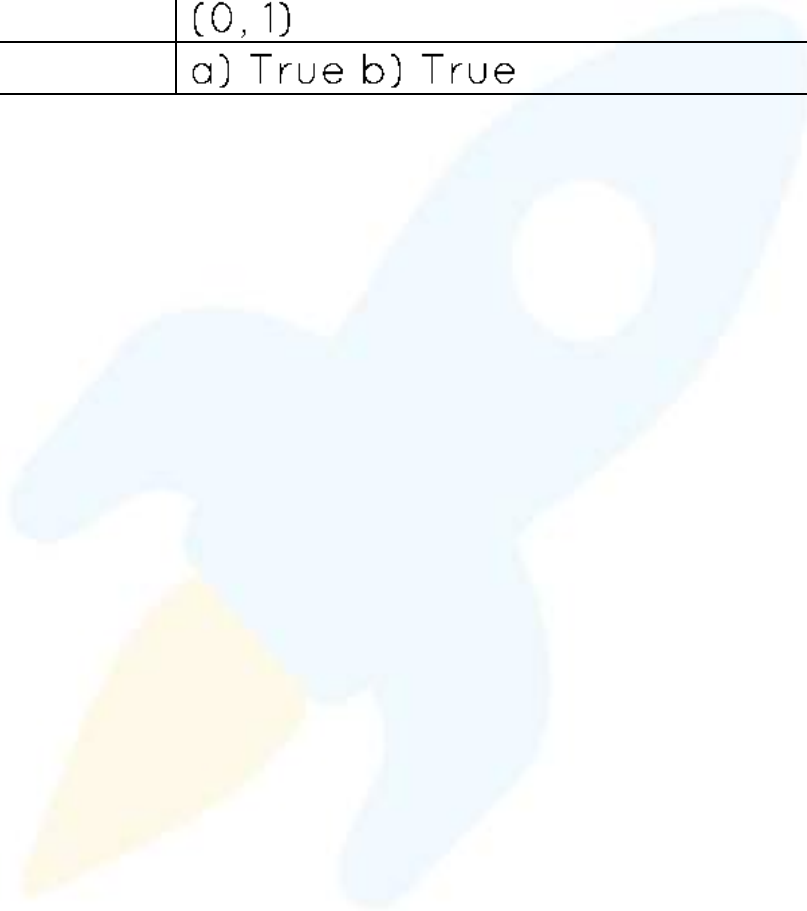
9)



$(0, 1)$

10)

a) True b) True



FUN FACT

1. The invention of the **Cartesian Coordinate System** is credited to René Descartes.
2. 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.
3. A point in a coordinate plane is named by its ordered pair of the form (x, y) .

