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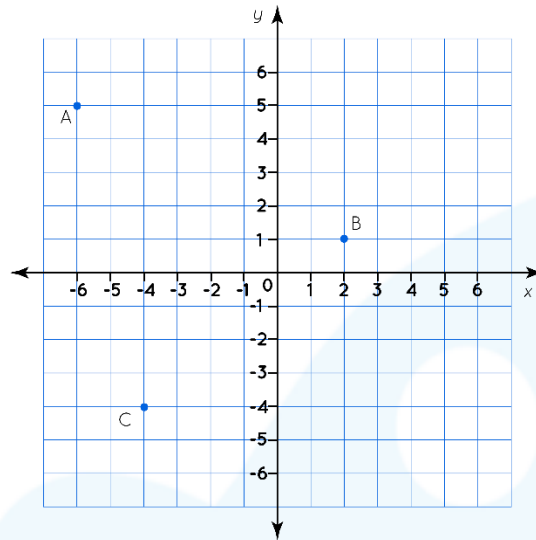
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5th-grade coordinate plane worksheet-2

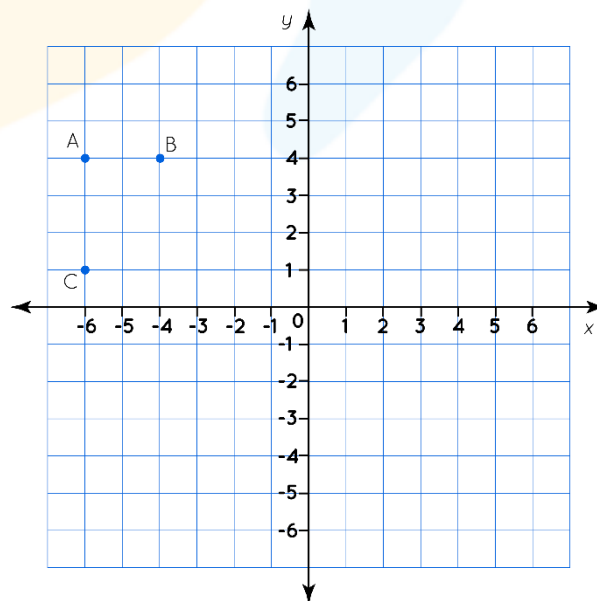
Q.1 Write the ordered pair for each point graphed below and name its quadrant.



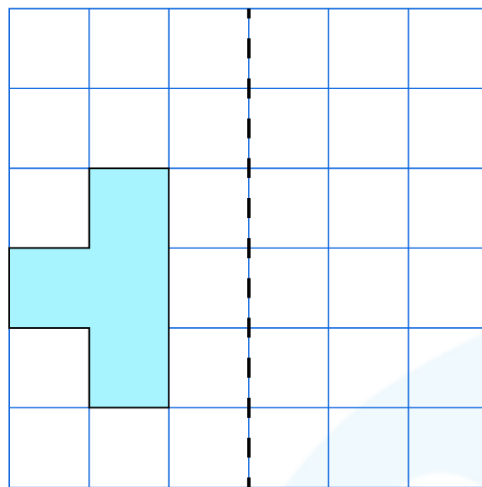
Q.2 Plot the coordinates given below in the plane:

- a) $(-1, 3)$
- b) $(0, 0)$
- c) $(-3, 4)$

Q.3 Plot the coordinates of point D to form a rectangle.

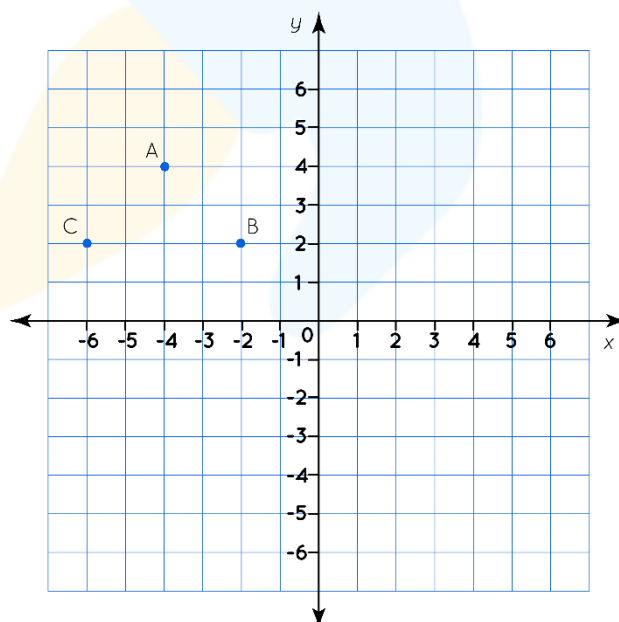


Q.4 Reflect the following shape in the mirror line in the plane:

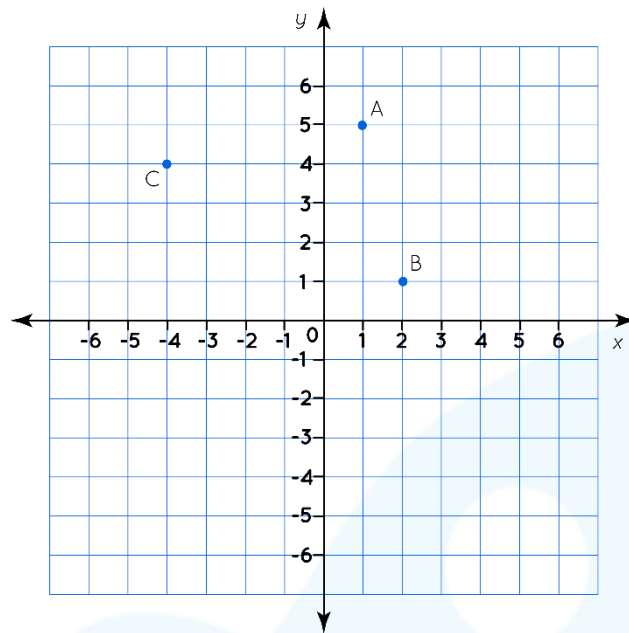


Q.5 A shape in the coordinate plane has the following coordinates: $(1, -3)$, $(1, 2)$, $(1, 4)$, and $(2, -3)$. Plot the points and identify the shape.

Q.6 Find the coordinates of D in the following plane to form a square.



Q.7 Find which point is located at each ordered pair.



a) $(-4, 4)$ -

b) $(1, 5)$ -

c) $(2, 1)$ -

Q.8 Plot the line joining points $(-2, 2)$ and $(3, 2)$ and find the point where it intersects the y-axis.

Q.9 Identify the shape joining points $(2, -2)$, $(3, 1)$, $(-3, -1)$, and $(3, 4)$.

Q.10 State whether true or false.

a) In the cartesian plane, the point $(3, -3)$ lies in the third quadrant.

b) In the cartesian plane, the horizontal line is called the x-axis.

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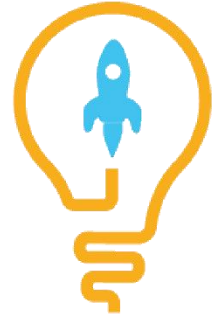
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**ANSWERS**

1	Point A: $(-6, 5)$ - II quadrant Point B: $(2, 1)$ - I quadrant Point C: $(-4, -4)$ - III quadrant
2	Refer the graph in solution.
3	Point D: $(-4, 1)$
4	Draw the mirror image of the given figure across the reference line.
5	The figure formed is a triangle.
6	Point D: $(-4, 0)$
7	a) C b) A c) B
8	$(0, 2)$
9	The figure formed is a quadrilateral.
10	a) False b) True

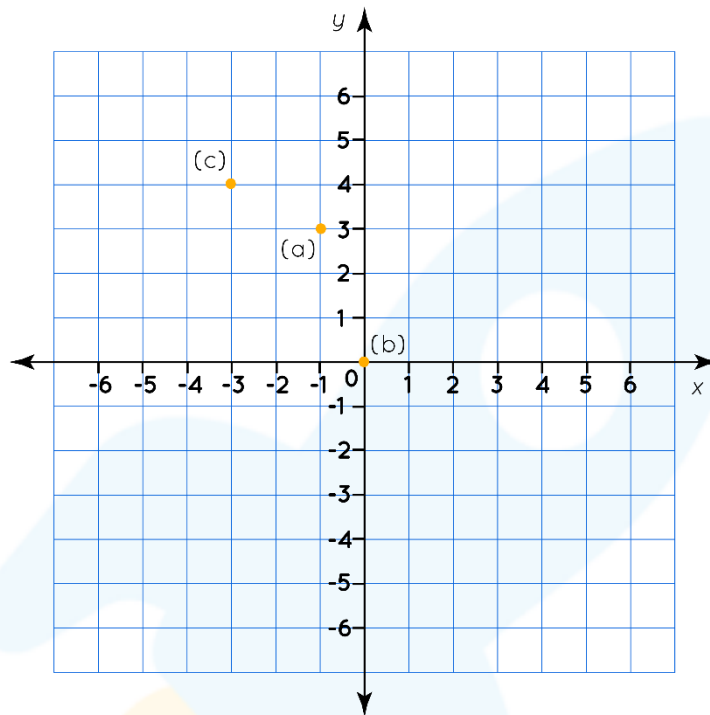
Solutions:

1. Point A: $(-6, 5)$ - II quadrant

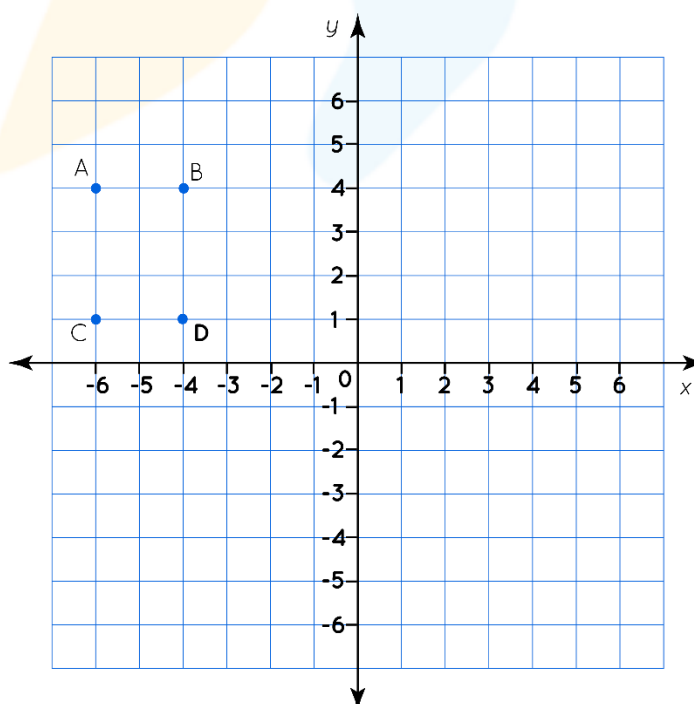
Point B: $(2, 1)$ - I quadrant

Point C: $(-4, -4)$ - III quadrant

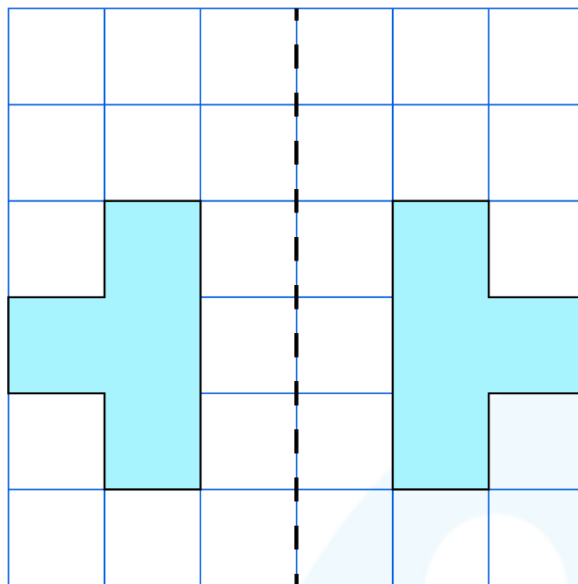
2.



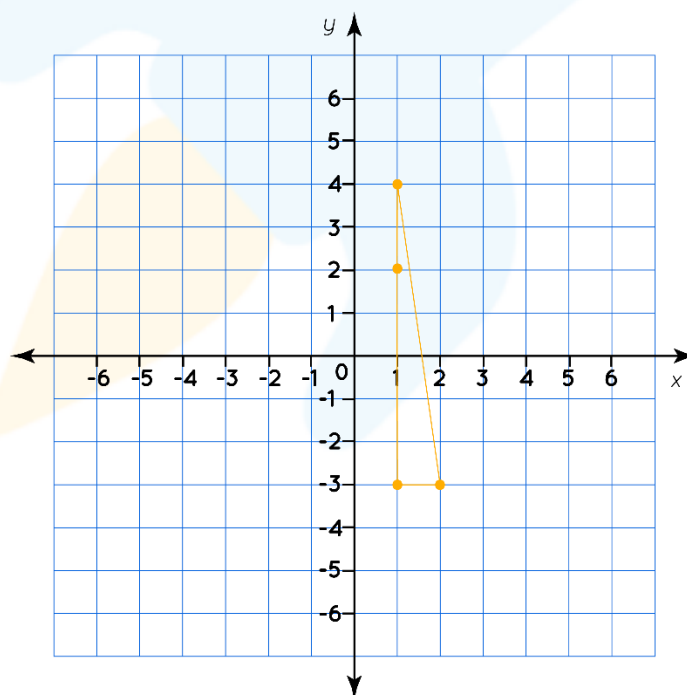
3. The required coordinates of D are $(-4, 1)$.



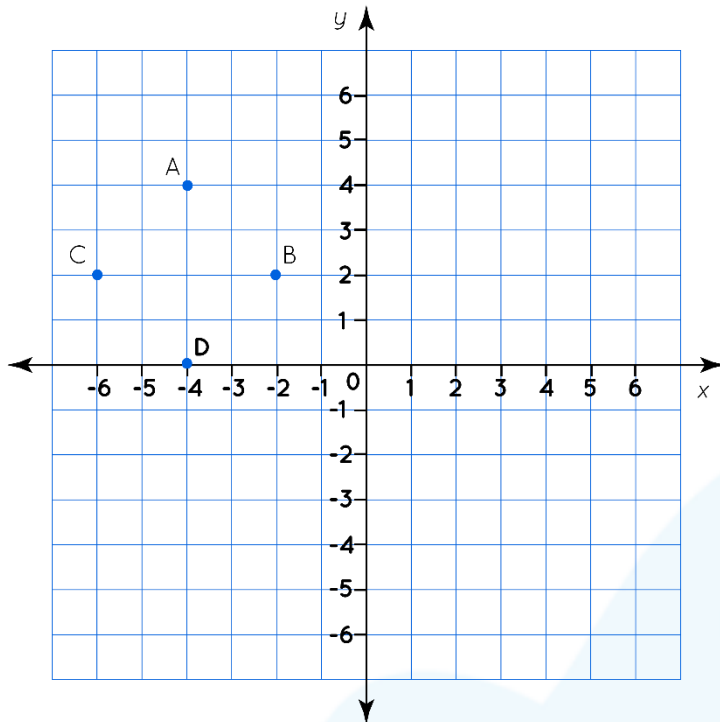
4.



5. The given points form a triangle after plotting in the cartesian plane.

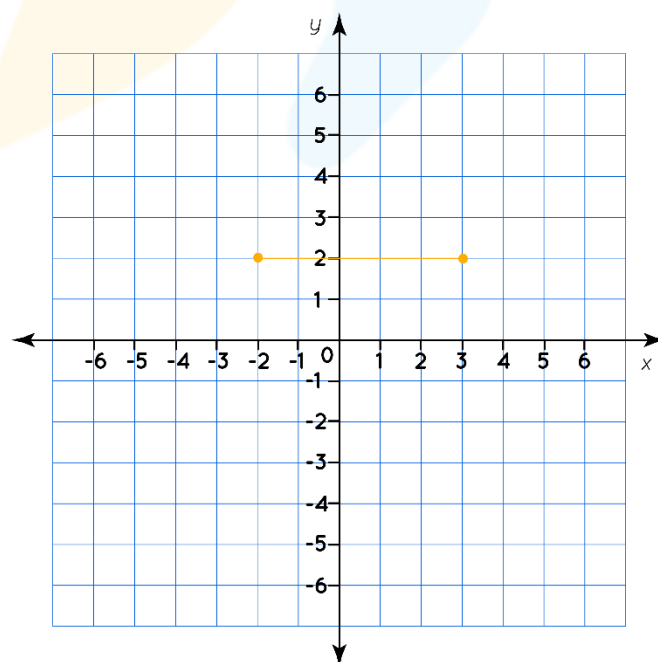


6. The required coordinated for point D are $(-4, 0)$

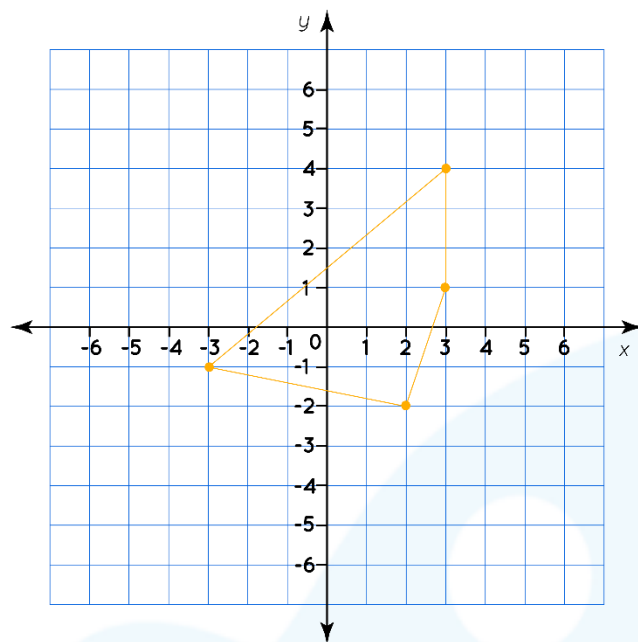


7. a) C
b) A
c) B

8. The plotted line intersects the y-axis at $(0, 2)$



9. The figure thus formed is a quadrilateral.



10. a) False, the point $(3, -3)$ lies in the third quadrant.
b) True

FUN FACT

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

