## chillimath education for all



<b>COORDINATE GEOMETRY</b>
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COORDINATE GEOMETRY			CM090301	
Multiple Choice Ques 1. Which of the follow	stions: ving points lies below the <i>x</i> -axi	is ?	1 mark each	
(a) (5 <i>,</i> – 4)	(b) (-5, 4)	(c) (-3, 0)	(d) (3, 0)	
2. If $(x, y) = (y, x)$ , then	n :			
(a) $x - y = 0$	(b) $x + y = 0$	(c) <i>xy</i> = 0	(d) $\frac{x}{y} = 0$	
3. The perpendicular	bisector of a line segment AB	passes through the origin. If t	he co-ordinates	
of A are (–2, 0), the co	o-ordinates of B are:			
(a) (0, 2)	(b) (2, 0)	(c) (0, −2)	(d) (–2, 0)	
4. If (x + 1, 4) = (5, y -	1), then the values of x and y	are :		
(a) <i>x</i> = 4, <i>y</i> = 4	(b) <i>x</i> = 5, <i>y</i> = 4	(c) <i>x</i> = 4, <i>y</i> = 5	(d) <i>x</i> = 5, <i>y</i> = 5	
5. The point (2, 7) is a	t a distance ofunits from	m the y-axis.		
(a) 2	(b) 7	(c) 2 + 7	(d) 7 – 2	
Very Short Answer Ty	ype Questions :		2 marks each	
6. Find the co-ordinat	es of the point :			
(i) Which lies on x an	d y axes both.			
(ii) Whose abscissa is	2 and which lies on the <i>x</i> -axis.			
7. What is the perpen	dicular distance of the points	A(7, – 4) from (i) x-axis (ii) y-a	axis ?	
8. Locate the followin	g points in the cartesian plane	<mark>e: A(3, 0), B(0, 5), C(–3, –</mark> 5) an	d D(2, 4)	
Short Answer Type Q	uestions :		3 marks each	
9. Plot the point P(-6	, 2) and from it draw PM and F	N as perpendiculars to x-axis	and y-axis respectively. Write	
t <mark>he co-ord</mark> inates of th	e points M and N.			
10 <mark>. Plot</mark> following poi	nts and write the name of the	figure thus obtained. A(- 3, 2	2), B( -7, -3), C(6, -3), D(2, 2).	
11. Plot the following	points and check whether the	ey are collinear or not.		
(i) (0, 0), (2, 2), (5, 5)				
(ii) (1, 3), (- 1, - 1), (-	-2, - 3)			
(iii) (1, 1), (2, - 3), (-1	L, – 2)			

## Long Answer Type Questions :

4 marks each

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12. (i) Plot each of the points A (-2, 4), B (-2, -3), C (4, -3) and D (4, 4).

- (ii) Draw the segments AB, BC, CD and DA. What is the name of the figure ABCD?
- (iii) What are the coordinates of the point where the segment AD cuts the *y*-axis ?
- (iv) What are the coordinates of the points where the segment CD cuts the x-axis ?

13. Write the coordinates of the vertices of a rectangle whose length and breadth are 5 and 3 units respectively,

one vertex at the origin, the longer side lies on the x-axis and one of the vertices lies in the third quadrant.

