

## Coordinate Geometry

DHA-03

1. Find the coordinates of the point which divides the join of  $(-1, 7)$  and  $(4, -3)$  in the ratio  $2 : 3$ .  
 (A)  $(1, 3)$  (B)  $(2, 6)$   
 (C)  $(3, 4)$  (D)  $(4, 6)$
2. The ratio, in which the  $Y$ -axis divides the line segment joining the points  $(5, -6)$  and  $(-1, -4)$  is:  
 (A)  $1 : 5$  (B)  $5 : 1$   
 (C)  $2 : 4$  (D) None of these
3. The coordinates of point  $A$ , where  $AB$  is the diameter of a circle whose centre is  $(3, -4)$  and  $B$  is  $(1, 4)$  is:  
 (A)  $(2, 0)$  (B)  $(12, -5)$   
 (C)  $(5, -12)$  (D) None of the above
4. The fourth vertex  $D$  of a parallelogram  $ABCD$  whose three vertices are  $A(-2, 3)$ ,  $B(6, 7)$  and  $C(8, 3)$  is:  
 (A)  $(0, 1)$  (B)  $(0, -1)$   
 (C)  $(-1, 0)$  (D)  $(1, 0)$
5. If points  $A(5, p)$ ,  $B(1, 5)$ ,  $C(2, 1)$  and  $D(6, 2)$  form a square  $ABCD$ , then ' $p$ ' =  
 (A) 7 (B) 3  
 (C) 6 (D) 8
6. If  $A$  and  $B$  are  $(-2, -2)$  and  $(2, -4)$  respectively, find the coordinates of  $P$  such that  $AP = \frac{3}{7}AB$  and  $P$  lies on the line segment  $AB$ .
7. Find the ratio in which the line segment joining the points  $(-3, 10)$  and  $(6, -8)$  is divided by  $(-1, 6)$ .
8. Determine the ratio in which the line  $2x + y - 4 = 0$  divides the line segment joining the points  $A(2, -2)$  and  $B(3, 7)$ .



**Note: Kindly find the Video Solution of DHAs Questions in the DPPs Section.**

## Answer Key

1. (A)

2. (B)

3. (C)

4. (B)

5. (C)

6.  $\left(\frac{-2}{7}, \frac{-20}{7}\right)$

7. (2 : 7)

8. (2 : 9)

## Hints and Solutions

1. (A)  $(1, 3)$
2. (B)  $(5 : 1)$
3. (C)  $(5, -12)$
4. (B)  $(0, -1)$

5. (C) Six.
6.  $\left(\frac{-2}{7}, \frac{-20}{7}\right)$
7.  $(2 : 7)$
8.  $(2 : 9)$



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