CHAPTER-7 COORDINATE GEOMETRY

1. The distance of the point $\mathbf{P}(2,3)$ from the x-axis is

EXERCISE - 7.1

	1
5.	AOBC is a rectangle whose three vertices are vertices $\mathbf{A}(0,3)$, $\mathbf{O}(0,0)$ and $\mathbf{B}(5,0)$. The length of its diagonal is
	(d) 10
	(c) 5
	(b) 5
	(a) 5
4.	The distance between the points $(0,5)$ and $(-5,0)$ is
	(d) 6
	(c) 10
	(b) $2\sqrt{7}$
	(a) 8
3.	The distance of the point $\mathbf{P}(-6,8)$ from the origin is
	(d) 2
	(c) 4
	(b) 8
	(a) 6
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2	The distance between the points $\mathbf{A}(0,6)$ and $\mathbf{B}(0,-2)$ is
	(d) 5
	(c) 1
	(b) 3
	(a) 2

	(a) 5
	(b) 3
	(c) 34
	(d) 4
6.	The perimeter of a triangle with vertices $(0,4),(0,0)$ and $(3,0)$ is
	(a) 5
	(b) 12
	(c) 11
	(d) 7
7.	The area of a triangle with vertices $\mathbf{A}(3,0), \mathbf{B}(7,0)$ and $\mathbf{C}(8,4)$ is
	(a) 14
	(b) 28
	(c) 8
	(d) 6
8.	The points $(-4,0),(4,0),(0,3)$ are the vertices of
	(a) right triangle
	(b) isosceles triangle
	(c) equilateral triangle
	(d) scalent triangle
9.	The point which divides the line segment joining the points ${\bf P}(7,-6)$ and $(3,4)$ in ratio 1 : 2 internally lies in the
	(a) I quadrant
	(b) II quadrant
	(c) III quadrant
	(d) IV quadrant
10.	The point which lies on the perpendicular bisector of the line segment

joining the points $\mathbf{A}(-2,-5)$ and $\mathbf{B}(2,5)$ is

	 (a) (0,0) (b) (0,2) (c) (2,0)
11	(d) (-2,0) The fourth vertex D of a parallelegram ABCD where three vertices
11.	The fourth vertex D of a parallelogram ABCD whose three vertices are $\mathbf{A}(-2,3), \mathbf{B}(6,7)$ and $\mathbf{C}(8,3)$ is
	 (a) (0,1) (b) (0,-1) (c) (-1,0) (d) (1,0)
12.	If the point $\mathbf{P}(2,1)$ lies on the line segment joining points $\mathbf{A}(4,2)$ and $\mathbf{B}(8,4)$, then
	(a) $AP = \frac{1}{3}AB$ (b) $AP = PE$ (c) $PB = \frac{1}{3}AB$ (d) $AP = \frac{1}{2}AB$
13.	If P $\frac{a}{3}$ is the mid-point of the line segment joining the points $\mathbf{Q}(-6,5)$ and $(-2,3)$, then the value of a is
	 (a) -4 (b) -12 (c) 12 (d) -6
14.	The perpendicular bisector of the line segment joining the points $\mathbf{A}(1,5)$ and $\mathbf{B}(4,6)$ cuts the y-axis at
	(a) $(0, 13)$

(b) (0,-13) (c) (0,12)

- (d) (13,0)
- 15. The coordinates of the point which is equidistant from the three vertices of the **AOB** as shown in the Fig. 7.1 is
 - (a) (x, y)
 - (b) (y, x)
 - (c) $\left(\frac{x}{2}, \frac{y}{2}\right)$
 - (d) $\left(\frac{y}{2}, \frac{x}{2}\right)$
- 16. A circle drawn with origin as the centre passes through $(\frac{13}{2}, 0)$. The point which does not lie in the interior of the circle is
 - (a) $(\frac{-3}{4}, 1)$
 - (b) $(2, \frac{7}{3})$
 - (c) $(5, \frac{-1}{2})$
 - (d) $\left(-6, \frac{-5}{2}\right)$
- 17. A line interects the y-axis and x-axis of the points \mathbf{P} and \mathbf{Q} , respectively. If (2,5) is the mid-point of \mathbf{PQ} . then the coordinates of \mathbf{P} and \mathbf{Q} are, respectively
 - (a) (0, -5) and (2, 0)
 - (b) (0, -10) and (-4, 0)
 - (c) (0,4) and (-10,0)
 - (d) (0, -10) and (4, 0)
- 18. The area of a triangle with vertices (a, b + c), (b, c + a) and (c, a + b) is
 - (a) $(a+b+c)^2$
 - (b) 0
 - (c) a+b+c
 - (d) abc
- 19. If the distance between the points (4, P) and (1, 0) is 5,then the value of **P** is
 - (a) 4 only

- (b) +4 only
- (c) -4 only
- (d) 0

20. If the points $\mathbf{A}(1,2), \mathbf{0}(0,0)$ and $\mathbf{C}(a,b)$ are collinear, then

- (a) a=b
- (b) a=2b
- (c) 2a=b
- (d) a=-b

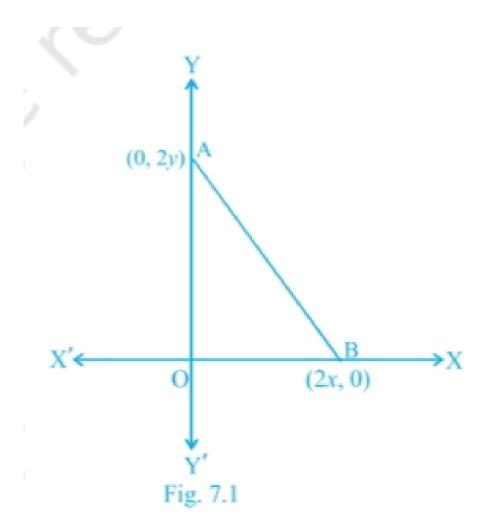


Figure 1