

3	a) What are the coordinates of the origin ?		
	b) What is the y coordinate of the points on the x -axis	?	
	c) Write the coordinates of another two points on the li	ne passing through (1,2)	
	parallel to the x axis ?	F 6 6 6 ( ) )	
4	a) What is the y coordinate of the points on the x- axis	?	
	b) Write the coordinates of another two points on the line passing through $(3, 5)$		
	parallel to the y- axis ?		
5	5 Complete the following table using the following points .		
	Origin		
	Point on the x- axis other than the origin		
	Point on the y- axis other than the origin		
	Points on a line parallel to the x- axis	••••••	
	Points on a line parallel to the y- axis		
6	a) Write the coordinates of the point at which the this line cuts the y-axis ?		
7	<ul> <li>b) If (5, k) is a point on this line , what is the value of k?</li> <li>A line is drawn through the point (4, 1) parallel to the y-axis .</li> </ul>		
	<ul><li>a) Write the coordinates of the point at which the this</li><li>b) If (m, 4) is a point on this line, what is the value</li></ul>	line cuts the x- axis ?	
8	A circle is drawn with origin as centre . The circle cuts t	the x axis at the point (3,0)	
	a) What is the radius of the circle ?		
	b) Write the coordinates of another point at which the	circle cuts the x-axis ?	
	c) Write the coordinates of the points at which the circ	ele cuts the y-axis ?	
9	A circle is drawn with origin as centre . The circle cuts	the y- axis at the point (0,6)	
	a) What is the radius of the circle ?		
	b) Write the coordinates of another point at which the	circle cuts the y-axis ?	
c) Write the coordinates of the points at which the circle cuts the x-axis ?			
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34	A circle is drawn with origin as centre and radius $10$ .
	a) Write the coordinates of the points at which the circle cut the y- axis ?
	b) Write the coordinates of the points at which the circle cut the <b>x</b> - axis ?
	c) If (m, n) is a point on this circle prove that $m^2 + n^2 = 100$ ?
35	A circle is drawn with origin as centre and radius 7 .
	a) Write the coordinates of the points at which the circle cut the y- axis ?
	b) Write the coordinates of the points at which the circle cut the <b>x</b> - axis ?
	c) If (p,q) is a point on this circle prove that $p^2 + q^2 = 49$ ?
36	The vertices of triangle ABC are $A(1,9), B(4,6)$ and $C(3,11)$ .
	a) Compute the length of the sides of the triangle ?
	b) Prove that ABC is a right triangle ?
37	The vertices of triangle PQR are P(0,0),Q(2,0) and R(1, $\sqrt{3}$ ).
	a) Compute the length of the sides of the triangle ?
	b) Prove that PQR is an equilateral triangle ?
38	The vertices of triangle DEF are $D(1,3)$ , $E(6,2)$ and $F(4,5)$
	a) Compute the length of the sides of the triangle ?
	b) Prove that DEF is an isosceles triangle ?
39	Perpendiculars are drawn from a point P to the axes , cut the x axis at $(3, 0)$ and
	the y axis at (0, 2).
	a ) What are the coordinates of P ?
	b ) Write down the coordinates of two more points on a line passing through the
	point P parallel to the y-axis ?
	c )Write down the coordinates of another point on a line passing through the point $ {f P}$
	perpendicular to the $y - axis$ ?
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65	A circle is drawn with centre $(3,3)$ and radius $3$ .		
	a) What is the y- coordinate of a point on the x -axis ?		
	b) What are the coordinates of the point at which the circle cuts the x-axis <b>?</b>		
	c) What are the coordinates of the point at which the circle cuts the y-axis ?		
66	A circle is drawn with centre (6,6) and radius 6.		
	a) What is the x - coordinate of a point on the y -axis ?		
	b) What are the coordinates of the point at which the circle cuts the y-axis ?		
	c) What are the coordinates of the point at which the circle cuts the x-axis ?		
67	A circle is drawn with centre (3,4). (0,0) is a point on it .		
	a) What is the radius of the circle ?		
	b) What is the y- coordinate of the points on the x -axis ?		
	c) What are the coordinates of the point at which the circle cuts the x-axis ?		
68	A circle is drawn with centre $(6, 8)$ . $(0, 0)$ is a point on it .		
	a) What is the radius of the circle ?		
	b) What is the x- coordinate of the points on the y-axis ?		
	c) What are the coordinates of the point at which the circle cuts the y-axis ?		
69	A circle of radius $\sqrt{2}$ is drawn with the point (1,1) as centre .		
	a) Check whether (2,0) is a point on this circle or not ?		
	b) What are the coordinates of the point at which the circle cuts the y-axis ?		
70	A circle of radius $\sqrt{5}$ is drawn with the point (1,1) as centre .		
	a) Check whether (0, 3) is a point on this circle or not ?		
	b) What are the coordinates of the point at which the circle cuts the x-axis ?		
71	A circle of radius 10 is drawn with the origin as centre .		
	a) Write the coordinates of a point at which the circle cuts the x-axis ?		
	b) Write the coordinates of a point at which the circle cuts the y -axis ?		
	c) Check whether the point (5,9) is inside , out side or on the circle ?		
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72	A circle of radius 5 is drawn with the point origin as centre .
	a) Write the coordinates of a point at which the circle cuts the x-axis ?
	b) Write the coordinates of a point at which the circle cuts the y-axis ?
	c) Check whether the point (2,3) is inside , out side or on the circle ?
	c) Check whether the point (2,5) is inside, out side of on the circle.
73	a) Draw the axes and mark the points A ( 4 ,1 ) , B ( -2 ,1 ) , C ( -2 , - 1 )and D ( 4 , -1 )
	b) Write the most suitable name for the quadrilateral ABCD ?
	c) Find its area ?
74	a) Draw the axes and mark the points A (5 , 3) , B ( -1 , 3 ) , C ( - 2, - 1 ) and D ( 4, -1 )
	b) Write the most suitable name for the quadrilateral ABCD ?
	c) Find its area ?
75	a) Draw the axes and mark the points A (2 , 4) , B ( -1 , 3 ) , C ( - 1, - 1 ) and D ( 2, -3 )
	b) Write the most suitable name for the quadrilateral ABCD ?
	c) Find its area ?
76	a) Draw the axes and mark the points A (4 , 0) , B ( 0 , 3 ) , C ( - 4, 0 ) and D ( 0, -3 )
	b) Write the most suitable name for the quadrilateral ABCD ?
	c) Find its area ?
77	a) Draw the axes and mark the points A(6,1), B(3,4), C(0,4) and D(-1, 1)
	b) Write the most suitable name for the quadrilateral ABCD ?
	c) Find its area ?
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