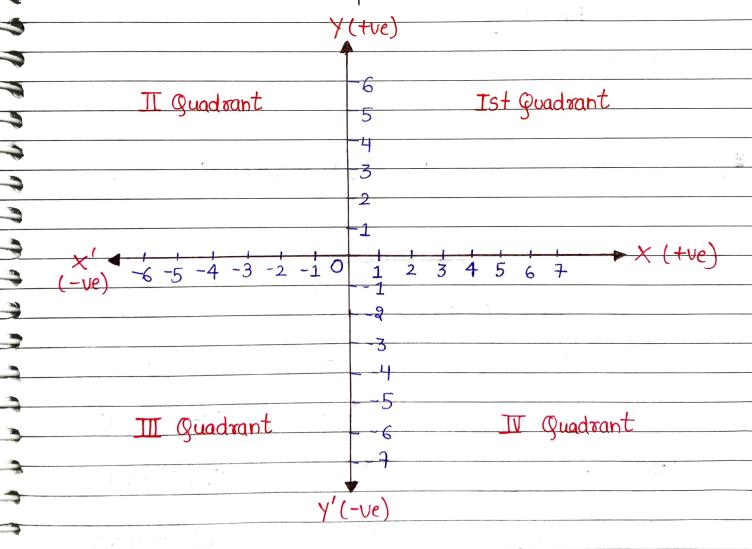


CO-ORDINATE GEOMETRY

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• <u>Cartesian System</u>: Take two number lines, one horizontal and one vertical and then combine them in Such a way that they intersect each other at zeroes, 50th and Cartesian plane of the the combine of the cartesian plane of the theory of the cartesian plane of the theory of the cartesian plane of



- Horizontal Line is Called x-axis.
- Vertical line is called Y-axis.
- Intersection point of these two lines is called origin.

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■ Coordinates & Court of Point of Cartesian Plane TX

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* x is location of point on x-axis and is called Abscissa.

* y is location of point on Y-axis and is Called Oxdinate.

Note: Coordinate of the Origin is (0,0).

Guadrant Sign Convention:

(v)

Value of Point Sign Location

(i) x=0, y=0 — Origin

(ii) x>0, y>0 (+,+) Ist Quadrant

(iii) x < 0, y > 0 (-,+) Ind Quadrant

(iv) x<0, y<0 (-,-) IIInd Quadrant

x>0, y<0 (+,-) IV th Quadrant Note: If a point lie on x-axis or y-axis it

does lie in any quadrant.

Is the Coordinates
$$(x,y) = (y,x)$$
?

The Coordinates $(x,y) = (y,x)$?

The coordinates $(x,y) = (y,x)$?

So $(x,y) = (-4,-2)$

Let $x = -4$ and $y = -2$

Now $(x,y) \neq (y,x)$ arith cartesian Plane y

* Note:
$$(x,y) = (y,x)$$
, only if $x = y$

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« HI3H 319 MCQ Practice orthin

PART (A)

		FAI	`' (~)			
1.	The	The abscissa of a point is the distance of the point from				
	a)	x-axis	b)	y-axis		
	c)	origin	d)	None of these		
2.	The	The y-coordinate of a point is the distance of that point from				
	a)	x-axis	b)	y-axis		
	c)	origin	d)	None of these		
3.	If bot	If both the coordinates of a point are negative then that point will lie in				
	a)	First quadrant	b)	Second quadrant		
	c)	Third quadrant	d)	Fourth quadrant		
4.	If abs	If abscissa of a point is zero then that point will lie				
	a)	on x-axis	b)	on y-axis		
	c)	at origin	d)	in 1st quadrant		
5. If x>0 and y<0, then the point (x, -y) lies in			n			
	a)	I quadrant	b)	Il quadrant		
	c)	III quadrant	d)	IV quadrant		
6.	Poin	Point (a, o) lies				
	a)	on x-axis	b)	on y-axis		
	c)	in third quadrant	d)	in fourth quadrant		
7.	•	s of abscissa and ordina ectively.	ite of a po	int in the fourth quadrant are		
	a)	+,+	b)	-,-		
	c)	-, +	d)	+,-		
8.	Ordi	Ordinate of a point is positive is				
	a)	I and IV quadrants	b)	I quadrant only		
	b)	I and II quadrants	d)	l and III quadrants		
9.		The point which lies on y-axis at a distance of 10 units in the negative direction of y-axis is				
	a)	(10,0)	b)	(0, 10)		
	c)	(-10, 0)	d)	(0, -10)		

10.	. The point whose abscissa and ordinate have different signs will lie in			nave different signs will lie in	
	a)	l and Il quadrants	b)	l and III quadrants	
	b)	II and III quadrants	d)	II and IV quadrant	
11.	Which of the point $P(0, 3)$, $Q(1, 0)$, $R(0, -1)$, $S(-5, 0)$, $T(1, 2)$ do not lie one x-axis?				
	a)	P and R only	b)	Q and S only	
	c)	P, R and T	d)	Q, S and T	
12.	-	coordinates of the points issa of P) – (abscissa of Q) i		(-2, 3), and Q (-3, 5), then	
	a)	-5	b)	1	
	c)	-1	d)	-2	
13.	3. Point (1, 1), (1, -1), (-1, 1), (-1, -1)				
	a)	lie in I quadrant	b)	lie in III quadrant	
	c)	lie in I and III quadrants	d)	do not lie in the same quadrant	
14.	The point of intersection of the coordinate axes is			e axes is	
	a)	Abscissa	b)	Ordinate	
	c)	Quadrant	d)	Origin	
15.	Thea	bscissa and ordinate of the	origin a	re	
	a)	1,0	b)	1, 1	
	c)	0, 1	d)	0,0	
16.	Then	neasure of the angle betwee	n the co	oordinate axes is	
	a)	0°	d)	90°	
	c)	180°	d)	270°	
17. The perpendicular distance of the point $p(-4, -3)$ from $x-ax$			o(-4, -3) from <i>x-axis</i> is		
	a)	-4	b)	-3	
	c)	4	d)	3	
18.	The p	erpendicular distance of the	point p	(-7, 2) from <i>y-axis</i> is	
	a)	-7	b)	7	
	c)	2	d)	None of these	

19.	The d	tance of the point p(3, 4) from the origin is		
	a)	3	b)	4
	c)	7	d)	5
20. Which of the points A(-5, 0), B(0, -3), C(3, 0), D(0, 4) are close origin?				
	a)	Α	b)	В
	c)	D	d)	Points B and C both

1. y-axis b) a) x-axis 2. 3. third quadrant c) 4. b) on y-axis 5. a) I quadrant 6. a) on x-axis 7. d) +, -8. c) I and II quadrants (0, -10)9. d) 10. d) II and IV quadrants 11. P, R and T c) 12. b) 1 13. d) do not lie in the same quadrant 14. d) Origin 15. d) (0, 0)16. b) 90° 17. d) 3 18. 7 b) 19. 5 d) 20. d) Points B and C both