



(For information 03335126161 parhozone@gmail.com)

	Name:		Roll No.		Subject	Math
	Test Type	Only MCQs	Class	12 th	Date	
	Chapter	04 Straight Line & Linear Inequality & Linear Programming	Unit	04	Time	

Q. No. 1 Tick the best option

1.	The distance of point	$\left(\frac{1}{2}, \frac{1}{2}\right)$	$\frac{-\sqrt{3}}{2}$	3	from origin.
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(a) 1

(b) $\frac{1}{2}$

(c) $\frac{\sqrt{3}}{4}$

(d) $\frac{\sqrt{3}}{2}$

2. The point which divides the segment joining (4,2) and (2,-2) in ratio 2:1 is.

(a)(3,0)

(b) (4,-1)

(d) $\left(\frac{10}{3}, \frac{2}{3}\right)$

If (2, 2) is the midpoint of the segment joining points (4, 6) and (a, b) then. 3.

(a) a = 0, b = 0

(b) a = 2, b = 1

(c) a = 0, b =

(d) a = -2, b = 0

4. If α is the Inclination of a non-horizontal line than.

(a) $0 \le \alpha \le 180^{\circ}$

(b) -90° ≤ α

 $(c) - 90^{\circ}$

(d) $0 < \alpha < 180^{\circ}$

The angle between lien x + y + 35. axis is

(a) 45°

(b) 90°

(d) 60°

The angle between the x-axis and line x 6.

(b) 30°

(d) 120°

7. The angle between the lines x + y = 0 and x

(a) 0°

(b) 90°

(c) 60°

(d) 45°

8. If the lines

(a) 3/2

If the lines 2x + 3y = 1 and px - 2y = 1 are perpendicular, then value of p is 9.

(a) $\frac{-4}{3}$

 $H A_{(b)}R_{\frac{3}{4}}^3 P A L$, (c) $A R T O_{(d)}S I C$

If the lines x+1=0, x+y+1=0 and Px+2y+3=0 are concurrent then the value of p is 10.

(a) 0

(b) 1

(c) 3

(d) -2

The distance of the point (1, -2) from lines 2x - y + 1 = 0 is. 11.

(a) $\sqrt{5}$

(b) $\frac{1}{\sqrt{2}}$

(c) $\frac{1}{\sqrt{5}}$

(d) $\frac{2}{\sqrt{5}}$

If the distance between points (1, 2) and (2, 5) is $\sqrt{a+1}$ then value of a is 12.

(a) 0

(b) ± 9

(c)9

(d) 3

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(a) 0

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13.	13. The pair of lines represented by $ax^2 + 2hxy + by^2 = 0$ are perpendicular if									
	(a) $a + b = 1$			(c) $h^2 = a$		(d) a +	b = 0			
14.	14. For $b > 0$, the point (x_1, y_1) lies above the line $ax + by + c = 0$ then									
	$(a) ax_1 + by_1$	1 + c > 0 (b) $ax_1 + by_1 + c = 0$	(c) $ax_1 + 1$	$by_1 + c \le 0$	0 (d) ax	$a + by_1 + c$	2<0		
15.	The pair of	lines repres	ented by $ax^2 + 2hxy$	ted by $ax^2 + 2hxy + by^2 = 0$ are coincident lines of						
	(a) $ab = 0$	(b) $h^2 = -ab$	(c) $h^2 - al$	b = 0	(d) h^2	+ab=0			
16.	If the line (2	2x + y + 3) -	+ k(x + y + 2) = 0 pa	sses throug	gh 0(0,0) tl	hen value	of k is			
	(a) 3/2	(b) -3/2	(c) -3		(d) -2/	3			
17.	The symmet	tric form of	equation of line thro	ough point	(x_1, y_1) and	d having	Inclinatio	nαis		
	$\frac{x + x_1}{\cos \alpha} = \frac{y}{\sin \alpha}$	$\frac{y_1}{n\alpha}$	b) $\frac{\mathbf{x} - \mathbf{x}_1}{\sin \alpha} = \frac{\mathbf{y} - \mathbf{y}_1}{\cos \alpha}$	(c) $\frac{x-x_1}{\cos\alpha}$	$=\frac{y-y_1}{\sin\alpha}$	(d) $\frac{x}{ta}$	$\frac{-\mathbf{x}_1}{\mathbf{n}\alpha} = \frac{\mathbf{y} - \mathbf{x}_1}{\mathbf{Co}}$	$\frac{y_1}{\delta t \alpha}$		
18.	The point of	intersectio	n of all the perpendi	cular bisec	tor of the s	sides of a	triangle is	s called		
	(a) Circumc	entre (b) In-Centre	(c) Ortho	entre	(d) Ce	ntroid			
19.	The point of	intersectio	n of altitudes							
	(a) Circumc	entre (b) Centroid	(c) In-Ce	ntre	(d) Or	thocentre			
20.	The centroid of a triangle with vertices									
	A (2, 3), B (-1, 6) and (C (7, 5) is	\						
	(a) $\left(\frac{1}{3}, \frac{2}{7}\right)$	(b) $\left(\frac{2}{5}, \frac{7}{3}\right)$	(c) $\left(\frac{8}{3}, \frac{14}{3}\right)$	4	(d) $\left(\frac{7}{3}\right)$	$\left(\frac{11}{3}\right)$			
21.	The points	A(7, 9), B (3	3,-7) and c (-3,3) are	the vertice	es of					
	(a) A right t	riangle 🖊	RH	(b) An iso	osceles tria	ingle		1		
	(c) An equil	ateral triang	sle la	(d) A righ	nt angle iso	sceles tri	iangle	1		
22.	The point (-	5, 3) is the	centre of circle and I	P(7, -2) lies	on the cir	cle. Then	the radiu	s of circle is		
	(a) 2	117	b) 13	(c) 7	K I	(d) 8				
23.	Centroid is a	a point which	ch divides each							
	(a) Median i	in 1:2		(b) Altitu	de in 1 : 2					
	(c) Right bis	sectior in 1	: 2	(d) None	of these					
24. Slope of y-axis is										
	(a) 0	(b) 1	(c) -1		(d) Un	defined			
25.	The inclinat	ion of any l	ine parallel to y-axis	sis						

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26.		lination		

- (a) 180°
- (b) 0°
- (c) 90°
- (d) 150°

The point which is three-fifth of the way along the line segment from A(-5,8) to B(5,3) is 27.

- (a) (5, -1)
- (b) (1,5)
- (c)(6,-1)
- (d)(-1,6)

- (a) $tan^{-1}3$
- (b) $tan^{-1}(1/3)$
- (c) $\frac{1}{2} \tan^{-1} 7$
- (d) 2tan⁻¹3

(a)
$$\left(\frac{8}{3}, \frac{19}{3}\right)$$

- (b) $\left(\frac{19}{3}, \frac{8}{3}\right)$
- (d) (18, 26)

- (a) Collinear
- (b) Parallel
- (c) perpendicular
- (d) concurrent

The slope of line with inclination 60° 31.

- (a) 0
- (b)
- (c) 1

(d) $\sqrt{3}$

If slope of l_1 is $\frac{-1}{2}$ and $l_1 \perp$ to l_2 , then sl 32.

- (a) 0
- (b) -1
- (d) 2

If m is slope of line passing through origin, then its equation is 33.

- (a) y = mx + c
- (b) y = mx c
- (d) y = mx

If $a \ne 0$, $b \ne 0$ then slope of line ax + by + c = 0 is 34.

The lines represented by $ax^2 + 2hxy + by^2 = 0$ are parallel if 35.

$$(a) h^2 - ab = 0$$



(c)
$$h^2 - ab > 0$$

$$(d) h^2 + ab = 0$$