Test Your Skills

Co-ordinate Geometry

Time = 30 Minutes

1. If the distance between point $A(a,0)$ and point $P(x,y)$ is $a+x$ then $y^2=?$

   (a) 2ax (b) 4ax (c) 6ax (d) 8ax

2. If point (x,y) is at equal distance from point $(a+b,b-a)$ and point $(a-b,a+b)$, then $bx=?$

   (a) a^2y (b) ay^2 (c) ay (d) a^2y^2

3. $P(-4,a)$ and $Q(2,a+4)$ are two points, and coordinate of mid point of PQ is $(-1,4)$, then find the value of a.

   (a) 0 (b) 2 (c) –2 (d) 3

4. If point $P(2,3),Q(5,a)$ and $R(6,7)$ are collinear points find the value of a.

   (a) 5/2 (b) – 4/3 (c) 6 (d) 5

5. The equation of the straight line passing through the point $(-6,-5)$ parallel to x-axis is

   (a) $y=-5$ (b) x=-6

   (b) y= –5 x (d) y= –6x –5

6. The equation of straight line passing through the point $y-$ $(2,-5)$ and parallel to y-axis is

   (a) x=2 (b) y=–5

   (c) y=2x (d) x=–5y

7. In Δ PQR coordinate of vertex P and Q are $P(-1,0)$ and $Q(5,-2)$ and co-ordinate of centroid is $(4,0)$

   (a) (8, -2) (b) 8,2)

   (c) (-8,2) (d) (-8,-2)

8. In what ratio x-axis divide the line segment which joining the point $A(3,-5)$ and point $B(5,4)$

   (a) 4:5 (b) 5:4 (c) 5:7 (d) 6:5

9. The equation of the line passing through the point (-4,1) and gradient is 5, is

   (a) y=5x+21 (b) y=5x-21

   (c) 5y=x+21 (d) 5y=x-21

10. If the lines $x+3y-8=0$ and $ax+12y+5=0$ are parallel, then the value of a is

    (a) 0 (b) 1 (c) 4 (d) –4

11. Find the angle between the lines $2y-\sqrt{12}x-9=0$ and $\sqrt{3}y-x+7=0$

    (a) 30º (b) 45º (c) 60º (d) $22\frac{1}{2}$

12. $P(3,5),Q(4,5)$ and $R(4,6)$ are three points. Find the angle between PQ and PR

    (a)30º (b) 45º (c) 60º (d) 90º

13. $P(2,3)$, $Q(-3,7)$ and $R(-1,-3)$ are the vertex of a Δ PQR. Find the equation of median PM.

    (a) x-y+10=0 (b) x-4y-10=0 (c) x-4y +10=0 (e) None of these

14. The equation of the straight line passing through the point $(1,1)$ and perpendicular to line $3x+4y-5=0$ is

    (a) 3x+4y-7=0 (b) 3x+4y+k=0 (c) 4x-3y-1=0 (d) 4x-3y+1=0

15. The equations of sides PQ,QR,RS and SP of a quadrilateral are $x+2y=3,x=1,x-3y=4,$ and $5x+y+12=0$ respectively. Find the angle between the diagonal PR and QS.

    (a) 30º (b) 45º (c) 60º (d) 90º

Gupta Classes

Test Your Skills

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1 ;fn $A(a,0)$ l fcUn $P(x,y)$ dh njh $a+x$ gk rk $y^2=?$

(a) 2ax (b) 4ax (c) 6ax (d) 8ax

2 ;fn fcUn (x,y) fcUnvk $(a+b,b-a)$ rFkk $(a-b,a+b)$ l leku njh ij g rk $bx=?$

(a) a^2y (b) ay^2

(c) ay (d) a^2y^2

3 $P(-4,a)$ rFkk $Q(2,a+4)$ nk fcUn g rFkk PQ d e/; fcUn d fun"kkd $(-1,4)$ g rk a dk eku Kkr dhft,

(a) 0 (b) 2 (c) –2 (d) 3

4 ;fn fcUn $P(2,3),Q(5,a)$ rFkk $R(6,7)$ lj[kh; g rk a dk eku g

(a) 5/2 (b) – 4/3 (c) 6 (d) 5

5 x – v{k d lekUrj rFkk fcUn $(-6,-5)$ l xtju okyh j[kk dk lehdj.k g

(a) $y=-5$ (b) x=-6

(b) y= –5 x (d) y= –6x –5

6 y – v{k d lekUrj rFkk fcUn $(2,-5)$ l xtju okyh j[kk dk lehdj.k g

(a) x=2 (b) y=–5

(c) y=2x (d) x=–5y

7 f=Hkt PQR के दो शीर्ष $P(-1,0)$ rFkk $Q(5,-2)$ g rFkk bldk dUnd $(4,0)$ g rk R के निर्देषांक है

(a) (8, -2) (b) 8,2)

(c) (-8,2) (d) (-8,-2)

8 $A(3,-5)$ RkFkk $B(5,4)$ dk feyku oky j[kk[k.M dk x v{k fdl vuikr e ckVrk g

(a) 4:5 (b) 5:4 (c) 5:7 (d) 6:5

9 fcUn $(-4,1)$ l xtju okyh rFkk io.krk 5 okyh j[kk dk lehdj.k g

(a) y=5x+21 (b) y=5x-21

(c) 5y=x+21 (d) 5y=x-21

10 a d fdl eku d fy, j[kk, $x+3y-8=0$ rFkk $ax+12y+5=0$ lekUrj g

(a) 0 (b) 1 (c) 4 (d) –4

11 nk j[kk, lehdj.k de"k $2y-\sqrt{12}x-9=0$ rFkk $\sqrt{3}y-x+7=0$ g d chp dk dk.k Kkr dhft,

(a) 30º (b) 45º

(c) 60º (d) $22\frac{1}{2}$

12 ;fn $P(3,5),Q(4,5)$ rFkk $R(4,6)$ rhu fcUn g rk PQ rFkk PR d chp dk dk.k g

(a)30º (b) 45º (c) 60º (d) 90º

13 ,d ΔPQR जिसको शीर्ष $P(2,3),Q(-3,7)$ rFkk $R(-1,-3)$ gA ekf/;dk PM dk lehdj.k KkRk dhft,

(a) x-y+10=0 (b) x-4y-10=0

(c) x-4y +10=0 (e) bue l dkb ugh

14 fcUn $(1,1)$ l xtju okyh rFkk j[kk $3x+4y-5=0$ d yEcor j[kk dk lehdj.k g

(a) 3x+4y-7=0 (b) 3x+4y+k=0

(c) 4x-3y-1=0 (d) 4x-3y+1=0

15 ,d prHkt dh Hktkvk PQ,QR,RS rFkk SP d lehdj.k de"k $x+2y=3, x=1, x-3y=4, 5x+y+12=0$ g rk fod.kk PR rFkk QS d chp dk dk.k Kkrh dhft,

(a) 30º (b) 45º (c) 60º (d) 90º

…..All The Best