

MATHS-2B

TS-SENIOR MASTER

SUB: MATHS-IIB

IMPORTANT QUESTIONS-

2022-23

I VERY SHORT QUESTIONS.

QUESTION NO:1

1. Find the centre and radius of the circle $x^2 + y^2 - 4x - 8y - 41 = 0$
2. If the centre of the circle $x^2 + y^2 + ax + by - 12 = 0$ is (2,3), find the values of a, b and the radius of the circle
3. Find the value 'a' if $2x^2 + ay^2 - 3x + 2y - 1 = 0$ represents a circle and also find its radius.
4. Find the value of k, if the points (4,2) and (k,-3) are conjugate with respect to the circle $x^2 + y^2 - 5x + 8y + 6 = 0$
5. Obtain the parametric equation of the circle $(x-3)^2 + (y-4)^2 = 8^2$

QUESTION NO:2

1. If the length of a tangent from (5,4) to the circle $x^2 + y^2 + 2ky = 0$ is '1', then find 'k'
2. Find the pole of $ax + by + c = 0$ ($c \neq 0$) with respect to $x^2 + y^2 = r^2$
3. Find the other end of the diameter of the circle $x^2 + y^2 - 8x - 8y + 27 = 0$, if one end of it is (2,3).
4. Find the polar of (1, 2) with respect to $x^2 + y^2 = 7$
5. Find the equation of the normal at P (3,5) of the circle $S = x^2 + y^2 - 10x - 2y + 6$

QUESTION NO:3

1. Find the equation of the common chord of the pair of circles $x^2 + y^2 - 4x - 4y + 3 = 0$,
 $x^2 + y^2 - 5x - 6y + 4 = 0$
2. Find the angle between the circles $x^2 + y^2 - 12x - 6y + 41 = 0$ and $x^2 + y^2 + 4x + 6y - 59 = 0$.
3. Find the equation of radical axis of the circles $x^2 + y^2 + 4x + 6y - 7 = 0$, $4(x^2 + y^2) + 8x + 12y - 9 = 0$
 $4(x^2 + y^2) + 8x + 12y - 9 = 0$
4. Show that the angle between the circles $x^2 + y^2 = a^2$, $x^2 + y^2 = ax + ay$ is $\frac{3\pi}{4}$.
5. If circles $x^2 + y^2 - 5x - 14y - 34 = 0$, $x^2 + y^2 + 2x + 4y + k = 0$ are orthogonal, then find k.

QUESTION NO:4

1. Find the equation of the tangent to the parabola $y^2 = 6x$ at the positive end of the latus rectum
2. Find the coordinates of the points on the parabola $y^2 = 2x$ whose focal distance is $\frac{5}{2}$
3. Find the equation of the parabola whose vertex is (3,-2) and the focus is (3, 1)
4. Find the co-ordinates of the point on the parabola $y^2 = 8x$, whose focal distance is 10 units.
5. If (1/2, 2) is one extremity of a focal chord of the parabola $y^2 = 8x$ find the coordinates of the other extremity.

QUESTION NO:5

1. If the angle between the asymptotes of a hyperbola is 30° then find its eccentricity.
2. If the eccentricity of a hyperbola is $5/4$, then find the eccentricity of its conjugate hyperbola.
3. If e, e_1 are the eccentricities of a hyperbola and its conjugate hyperbola, prove that $\frac{1}{e^2} + \frac{1}{e_1^2} = 1$.
4. Find the eccentricity and length of latus rectum of the hyperbola $16y^2 - 9x^2 = 144$

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Siddappa N.Byrareddy



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