MATHS

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

LOCUS

Solved Problems

1. Find the equation of the locus of a point which is at a distance 5 from $(-2, 3)$ in the

xoy plane.

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2. Find the locus of P If the distance of P from (3,0) is twice the distance of P from (-3,0)

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3. Find the the locus of the third vertex of a right angled triangle, the ends of whose hypotenuse are (4,0) and (0,4).

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4. Find the locus of P(x,y) which moves such that its distances from A(5,-4),B(7,6) are in the ratio 2:3.

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5. A(2,3) and B(-3,4) be two given points. Find the equation of the locus of P so that the area of the triangle PAB is 8.5 sq.units.

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Textual Exercises Exercise 1 A

1. Find the equation of locus of a point which is at a distance 5 from A (4, - 3).

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2. Find the equation to the locus of points equidistant from the points

(-3,2),(0,4)

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3. Find the locus of P for which the distance from P to origin is double the distance from P to the point (1,2).

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4. Find the locus of the point which is equidistant from the coordinate axes.

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5. Find the equation of locus of a point equidistant from A (2, 0) and the Y- axis.

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6. Find the equation to the locus of the point, the square of whose distance from origin is 4 times its y-coordinate.

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7. Find the locus of the point P such that $PA^2 + PB^2 = 2c^2$:where"A(a,0),B(-a,0) and $0 < |a| < |c|$.

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8. Find the equation of locus of P, if the line segment joining (2,3) & (-1,5) subtends a right angle at P.

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9. The ends of the hypertenuse of right angled triangle are $(0, 6), (6, 0)$. The locus of the third vertex is

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10. Find the equation of locus of a point such that the difference of whose distances from (-5,0) and (5,0) is 8

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11. Find the equation of locus of P, if $A = (4, 0), B = (-4, 0)$ and $|PA - PB| = 4$

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12. Find the equation of locus of a point, the sum of whose distances from (0 , 2) and (0 , -2) is 6 .

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13. Find the equation of the locus of P, if A= (2,3), B=(2,-3) and PA +PB =8.

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14. A(5,3) and B(3,-2) are 2 fixed points. Find the equation of locus of P, so that the area of $\triangle PAB$ is 9sq. Units.

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15. Find the equation of the locus of a point, which forms a triangle of area 2 with the points A(1, 1) and B (-2, 3).

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16. If the distance from 'P' to the points (2,3) and (2,-3) are in the ratio 2:3, then find the equation of the locus of P.

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17. $A(1, 2), B(2, -3), C(-2, 3)$ are 3 points. A point P moves such that $PA^2 + PB^2 = 2PC^2$. Show that the equation to the locus of P is 7 x - 7y + 4 = 0 .

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