



MATHS

BOOKS - TELUGU ACADEMY MATHS (TELUGU ENGLISH)

LOCUS

1 D Saq

1. 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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2. The ends of the hypotenuse of right angled triangle are $(0, 6)$, $(6, 0)$. The locus of the third vertex is



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



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5. 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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6. $A(1, 2)$, $B(2, -3)$, $C(-2, 3)$ 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 $7x - 7y + 4 = 0$.



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7. 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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8. 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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9. 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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10. Find the equation of locus of a point which is equidistant from the coordinate axes.



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2 D Spq

1. Find 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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2. $A(5,3)$ 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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3. 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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4. 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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5. Find the equation of locus of P if $A = (4, 0)$, $B(-4, 0)$ and $|PA - PB| = 4$



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6. 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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