BAAP OF ALL FORMULA LISTS

FOR IIT JEE

CIRCLE

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SL#	FORMULA
1	**Equation of a Circle Centered at the Origin (Standard Form)** $x^2 + y^2 = R^2$
2	**Equation of a Circle Centered at Any Point** (a, b) ,$(x - a)^2 + (y - b)^2 = R^2$
3	**Three Point Form** $\begin{vmatrix} x^2+y^2 & x & y & 1 \\ x_1^2+y_1^2 & x_1 & y_1 & 1 \\ x_2^2+y_2^2 & x_2 & y_2 & 1 \\ x_3^2+y_3^2 & x_3 & y_3 & 1 \end{vmatrix} = 0$
4	**Parametric Form** $x = R\cos t, y = R\sin t, 0 \le t \le 2\pi$
5	**General Form** $Ax^2 + Ay^2 + Dx + Ey + F = 0$ $(A \neq 0, D^2 + E^2 > 4AF)$. **The center of the Circle has coordinates** (a, b) **where** $a = -\frac{D}{2A}, b = -\frac{E}{2A}$. **The radius of the circle is** $R = \sqrt{\frac{D^2 + E^2 - 4AF}{2\lvert A\rvert}}$

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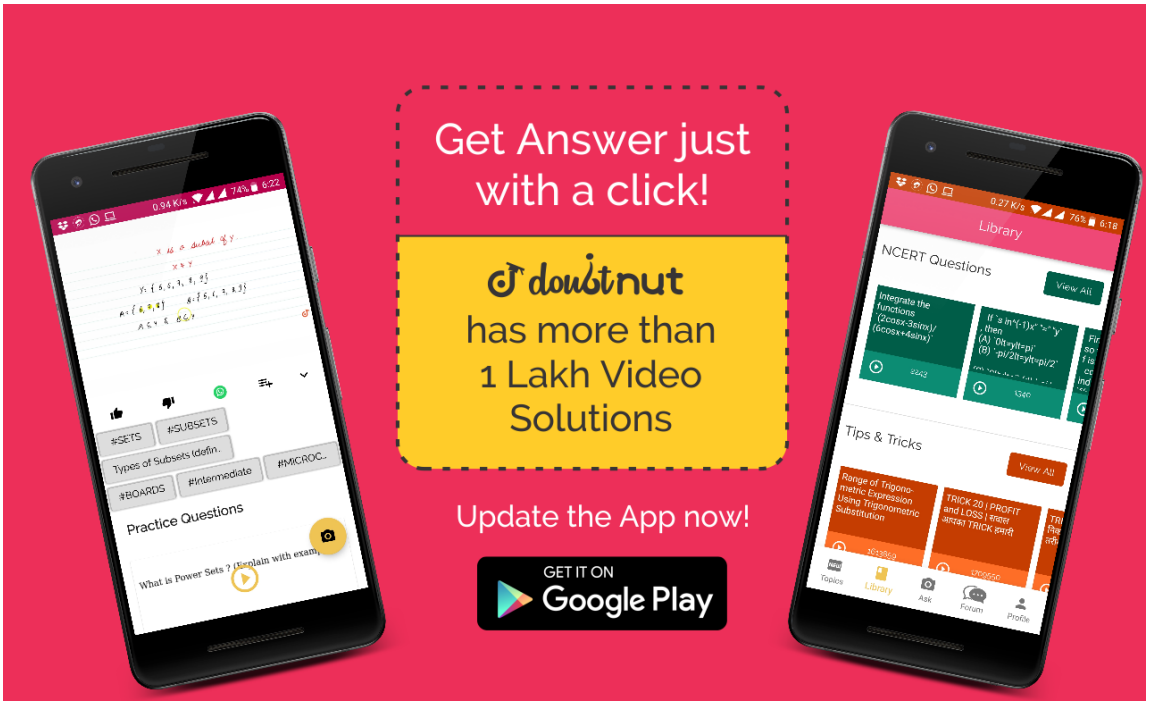
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