



Air maths tuition

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Circle Coordinate | Past Paper Question | C2 Edexcel January 2012 Q2

A circle C has centre $(-1, 7)$ and passes through the point $(0, 0)$. Find an equation for C .

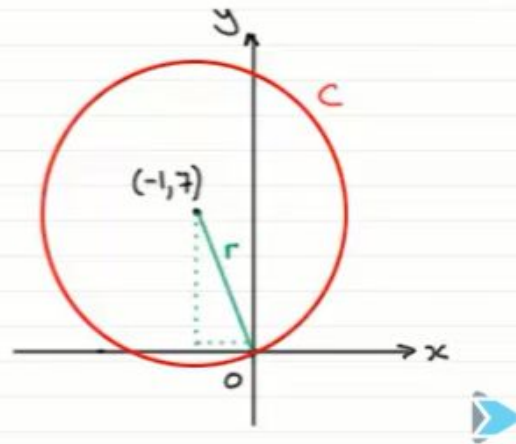
$$r^2 = (-1)^2 + (7)^2$$
$$= 50$$

$$(x - x_1)^2 + (y - y_1)^2 = r^2$$

\therefore Equation of C is:

$$(x - (-1))^2 + (y - 7)^2 = 50$$

$$\therefore (x + 1)^2 + (y - 7)^2 = 50$$



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