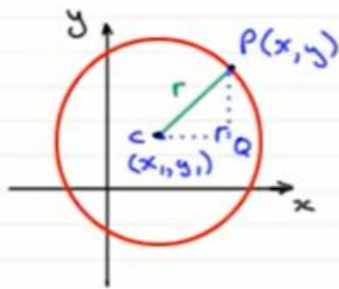




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## Cartesian Equation of a Circle



By Pythag. Theorem

$$CQ^2 + PQ^2 = CP^2$$

∴ Equation of circle is:

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

Find the equation of a circle with centre  $(4, -2)$  and radius 3.

∴ Equation of circle is:

$$(x - 4)^2 + (y - -2)^2 = 3^2$$

$$\therefore (x - 4)^2 + (y + 2)^2 = 9$$



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