



Air maths tuition

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$$C: x^2 + y^2 - 4x + 10y = k$$

$$\therefore (x-2)^2 - 4 + (y+5)^2 - 25 = k$$

$$\therefore (x-2)^2 + (y+5)^2 = k + 29$$

\therefore centre at $(2, -5)$

$$(x-a)^2 + (y-b)^2 = r^2$$

centre (a, b)

radius $= r$



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