

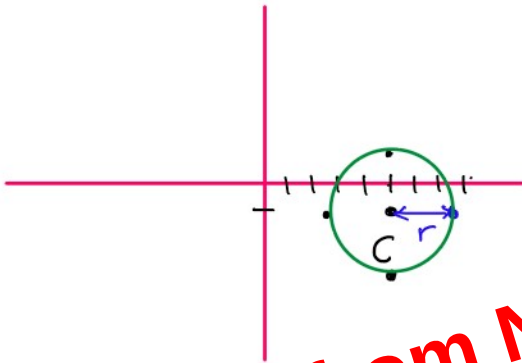
$$b) \frac{4x^2 + 4y^2 - 40x + 8y + 79 = 0}{4}$$

$$x^2 + y^2 - 10x + 2y + \frac{79}{4} = 0$$

$$C\left(\frac{-D}{2}, \frac{-E}{2}\right) = C\left(\frac{-(-10)}{2}, \frac{-2}{2}\right) \Rightarrow C(5, -1)^{h, k}$$

$$r = \frac{1}{2} \sqrt{D^2 + E^2 - 4F} = \frac{1}{2} \sqrt{(-10)^2 + (2)^2 - 4\left(\frac{79}{4}\right)} = \frac{1}{2} \sqrt{100 + 4 - 79} = \frac{\sqrt{25}}{2} = \frac{5}{2}$$

$$\therefore \text{La ec. es: } C: (x-5)^2 + (y+1)^2 = \frac{25}{4}$$



Preview from Notesale.co.uk
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