



SA 1 -Conic Sections

Total points 5/5 ?





The centre and radius of the circle whose equation is $2x^2 + 2y^2 - 3x + 2y - 4 = 0$ are

$$\left(\frac{3}{2}, -1\right), \frac{\sqrt{29}}{2}$$

Option 1

$$(3, -2), \sqrt{17}$$

Option 2

$$\left(\frac{3}{4}, -\frac{1}{2}\right), \frac{\sqrt{45}}{4}$$

Option 3



$$(-2, 3), \sqrt{17}$$

Option 4





The equation of the circle concentric with the circle $x^2 + y^2 - x + y - 2 = 0$ and radius 5 units is

$$(x + 1)^2 + (y - 1)^2 = 25$$

Option 1

$$\left(x - \frac{1}{2}\right)^2 + \left(y + \frac{1}{2}\right)^2 = 5$$

Option 2

$$\left(x + \frac{1}{2}\right)^2 + \left(y - \frac{1}{2}\right)^2 = 25$$

Option 3

$$\left(x - \frac{1}{2}\right)^2 + \left(y + \frac{1}{2}\right)^2 = 25$$

Option 4





1/1

The equation of the diameter of the circle $x^2 + y^2 - 2x + 4y = 0$ which passes through the origin is

$$x + 2y = 0$$

Option 1

$$2x + y = 0$$

Option 2



$$x - 2y = 0$$

Option 3

$$2x - y = 0$$

Option 4

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