원의 방정식의 일반형
(Equation of a circle in the general form)

Equation of a circle in the general form

Start

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$$x^2 + y^2 + \mathrm{A}x + \mathrm{B}y + \mathrm{C} = 0 \ (\mathrm{A}^2 + \mathrm{B}^2 - 4\mathrm{C} > 0)$$

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$$\left(x + \frac{\mathrm{A}}{2}\right)^2 + \left(y + \frac{\mathrm{B}}{2}\right)^2 = \frac{\mathrm{A}^2 + \mathrm{B}^2 - 4\mathrm{C}}{4}$$

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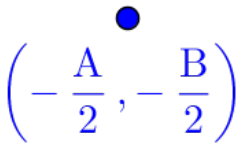
Centre : $\left(-\frac{\mathrm{A}}{2}, -\frac{\mathrm{B}}{2}\right)$



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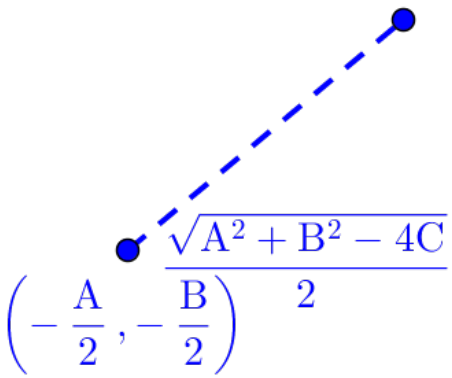

$$\text{Centre} : \left(-\frac{\mathrm{A}}{2}, -\frac{\mathrm{B}}{2}\right)$$

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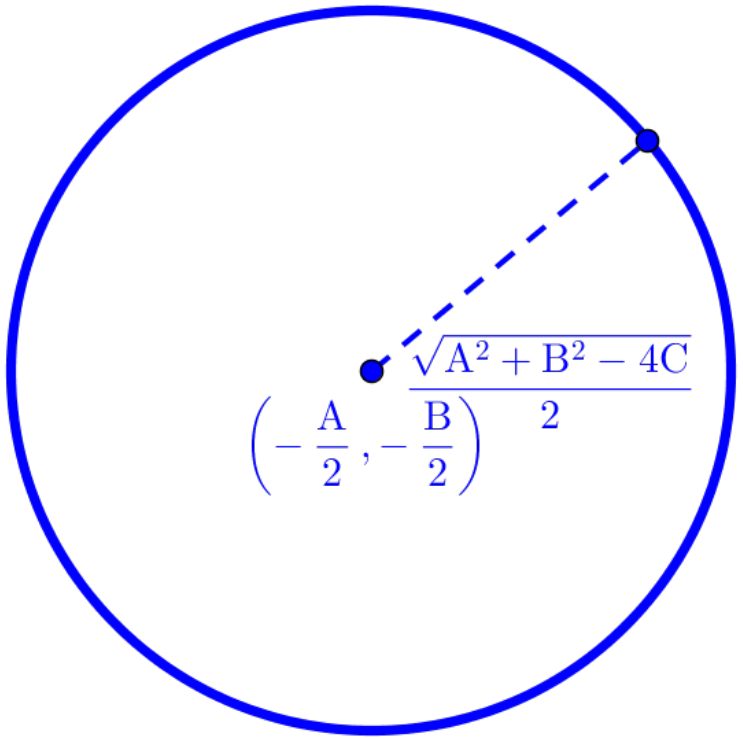

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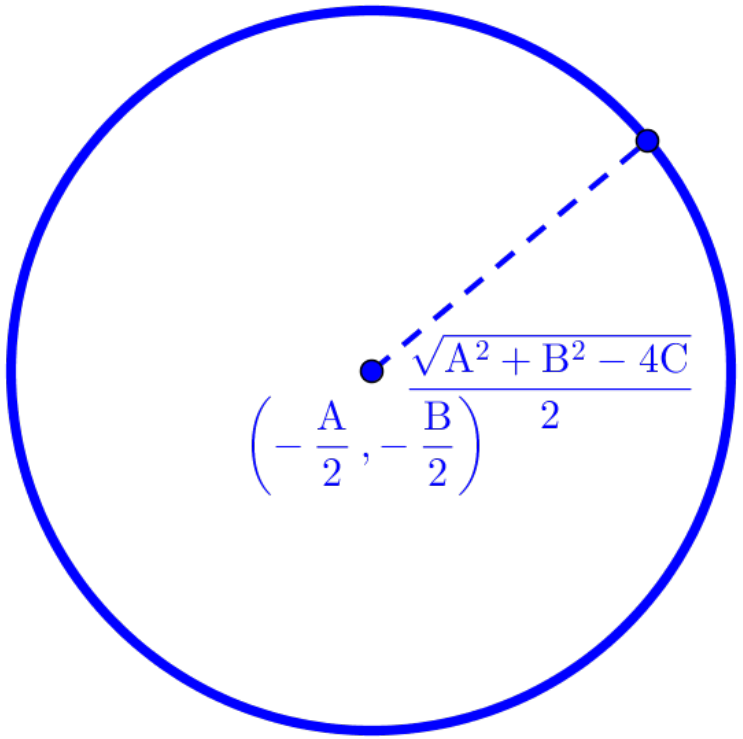

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