



Fill In The Blanks...



Equation of a Circle

| Equation in Factorised Form | Equation in Expanded Form | Centre of Circle | Radius of Circle |
|------------------------------|---------------------------------|---|------------------|
| $(x + 2)^2 + (y + 5)^2 = 9$ | $x^2 + y^2 + 4x + 10y + 20 = 0$ | $(-2, -5)$ | 3 |
| $(x - 3)^2 + (y + 2)^2 = 25$ | $x^2 + y^2 - 6x + 4y - 12 = 0$ | | |
| $x^2 + (y - 1)^2 = 4$ | | | |
| | | $(-1, 4)$ | 10 |
| | | $(-6, 0)$ | 5 |
| | | $(4, 2)$ | $\sqrt{15}$ |
| | $x^2 + y^2 + 2x + 6y - 6 = 0$ | | |
| | $x^2 + y^2 - 8x + 10y - 40 = 0$ | | |
| | | $\left(\frac{1}{2}, \frac{3}{2}\right)$ | 2 |
| | $x^2 + y^2 - 5x - 12y + 30 = 0$ | | |