

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
	$x^2 + y^2 - 5x - 12y + 30 = 0$		