Fill In The Blanks…

**Equation of a Circle**

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