EQUATIONS OF CIRCLES WORKSHEETS

1. The equation of a circle is $(x - 2)^2 + (y - 3)^2 = 25$. Find the radius and centre of the circle.

2. Find the equation of a circle having a radius of 2 units and having the centre at the point $(1, 2)$.

3. Find the centre of the circle $x^2 + y^2 + 8x + 10y + 12 = 0$.
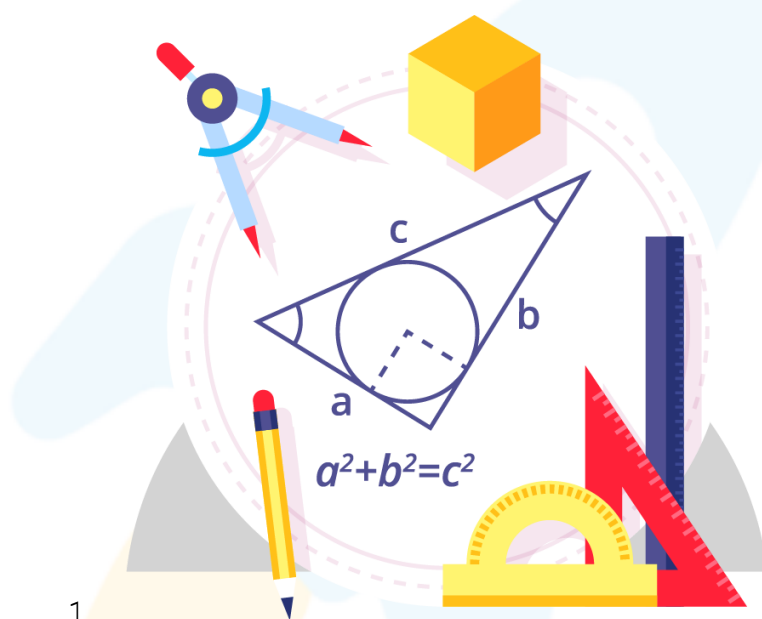
4. Find the equation of a circle having the centre at the origin and is passing through the point $(2, 3)$.

5. What is the radius of the circle having an equation $x^2 + y^2 - 10x - 12y + 25 = 0$?

6. What is the equation of a circle having the end points of its diameter as $(8, 10)$, and $(2, 6)$.

7. What is the equation of a circle which is concentric with a circle having the equation $x^2 + y^2 - 6x + 10y + 20 = 0$, and is having a radius of 7 units?

8. What is the area of a circle having the equation $x^2 + y^2 + 12x - 8y + 3 = 0$?

9. Find the equation of the circle passing through the origin, having a radius of 5 units and making an intercept of 8 units on the positive x-axis.

10. What is the equation of a circle passing through the origin and making equal intercepts of 6 units on the positive coordinate axes?

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1)	Radius = 5 units centre=(2, 3)
2)	$(x - 1)^2 + (y - 2)^2 = 4$
3)	(-4, -5)
4)	$X^2 + y^2 = 13$
5)	6 units
6)	$(x - 8)(x - 2) + (y - 10)(y - 6) = 0$

7)	$(x - 3)^2 + (y + 5)^2 = 49$
8)	154 square units
9)	$(x - 4)^2 + (y - 3)^2 = 25$
10)	$X^2 + y^2 - 6x - 6y = 0$