EQUATIONS OF CIRCLES WORKSHEETS

1. Find the centre and radius of the circle $(x + 5)^2 + (y - 4)^2 = 16$.

2. Find the equation of a circle having a radius of 3 units and having the centre at the point (3, 3).

3. Find the radius of the circle $x^2 + y^2 - 22x + 16y - 10 = 0$.
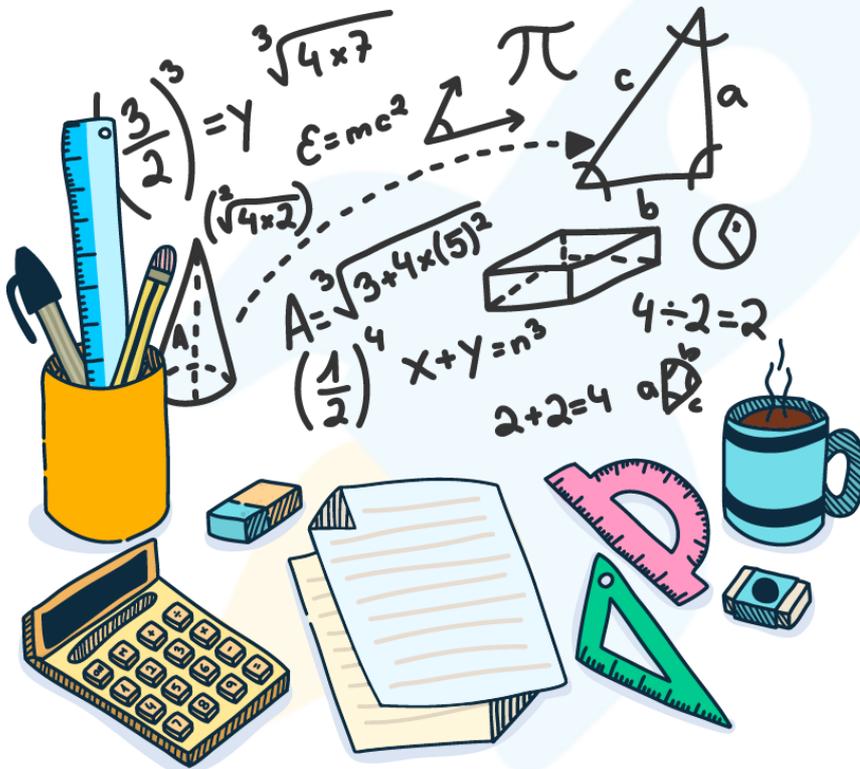
4. Find the equation of a circle having the centre at (4, 5) and is passing through the origin.

5. What is the radius of the circle having an equation $x^2 + y^2 + 9x - 7y + 10 = 0$?

6. What is the equation of a circle having the end points of its diameter as (3, 9), and (-15, 7)?

7. What is the equation of a circle having the radius equal to the radius of the circle $x^2 + y^2 + 4x + 8y -7 = 0$, and is having the centre at (3, 4)?

8. What is the area of a circle having the equation $x^2 + y^2 - 10x + 8y + 5 = 0$?

9. Find the equation of the circle passing through the origin, having a radius of 13 units and making an intercept of 10 units on the positive y-axis.

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

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1)	Radius = 4 units, Centre(-5, 4)
2)	$X^2 + y^2 - 6x - 6y + 9 = 0$
3)	(11, -8)
4)	$X^2 + y^2 - 8x - 10y = 0$
5)	(-9/2, 7/2)
6)	$(x + 15)(x - 3) + (y - 9)(y - 7) = 0$

7)	$(x - 3)^2 + (y - 4)^2 = 27$
8)	36π square units
9)	$(x - 12)^2 + (y - 5)^2 = 169$
10)	$x^2 + y^2 - 10x - 10y = 0$