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EQUATIONS OF CIRCLES WORKSHEETS

1. The centre and radius of a circle is $(-4, 3)$ and 5 units respectively. Form an equation of a circle.
2. Find the locus of a point which is at a distance of 3 units from the point $(1, -4)$.
3. Find the diameter of a circle having its equation as $x^2 + y^2 - 6x - 8y + 12 = 0$.



4. What is the equation of the smallest circle which can be drawn, passing through the points $(-1, 0)$, and $(4, 7)$?
5. Write the equation of a circle having the x-intercept as 10 units, and y-intercept as 24 units respectively.

6. Find the equation of a circle having a radius of 4 units, whose centre lies on the x-axis, and the circle is passing through the point $(2, 3)$.
7. Find the equation of a circle with centre $(3, 3)$ and is passing through the point $(4, 5)$.
8. What is the equation of circle which is concentric with the circle $x^2 + y^2 - 18x + 20y + 5 = 0$ and has a radius which is 4 units?
9. What is the equation of a circle having the extremities of the diameter as $(4, 3)$ and $(12, -7)$?
10. Find the equation of a circle making equal intercepts of 12 units on the coordinate axis, in the first quadrant.

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$(x + 4)^2 + (y - 3)^2 = 25$
2)	$(x - 1)^2 + (y + 4)^2 = 9$
3)	$2\sqrt{13}$ units
4)	$(x - 4)(x - 1) + (y(y - 7)) = 0$
5)	$(x - 5)^2 + (y - 7)^2 = 13$
6)	$(x - 2 + \sqrt{7})^2 + y^2 = 16$

7)	$(x - 3)^2 + (y - 3)^2 = 5$
8)	$x^2 + y^2 - 18x + 20y + 100 = 0$
9)	$(x - 12)(x - 4) + (y - 3)(y + 7) = 0$
10)	$x^2 + y^2 - 12x - 12y = 0$