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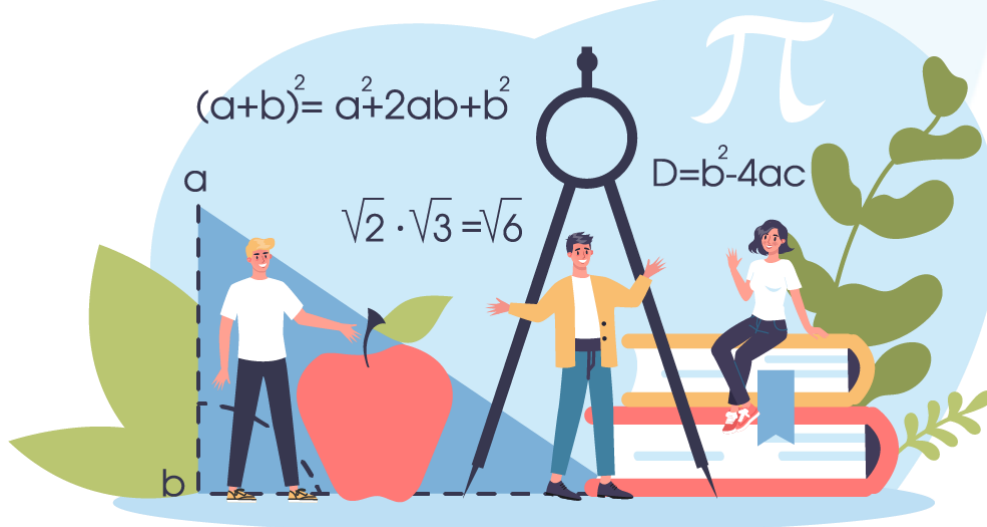
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EQUATIONS OF CIRCLES WORKSHEETS

1. The center and radius of a circle is $(5, 7)$ and 3 units respectively. Form an equation of a circle.
2. Find the locus of a point which is at a distance of 8 units from the point $(-2, 5)$.
3. Find the diameter of a circle having its equation as $x^2 + y^2 + 14x - 10y + 20 = 0$.



4. What is the equation of the smallest circle which can be drawn, passing through the points $(-5, 0)$, and $(-3, 8)$?
5. Write the equation of a circle having the x-intercept as 30 units, and y-intercept as 16 units respectively.
6. Find the equation of a circle having a radius of 9 units, whose centre lies on the y-axis, and the circle is passing through the point $(4, 5)$.
7. Find the equation of a circle with centre $(4, 4)$ and is passing through the point $(-2, 6)$.
8. What is the equation of circle which is concentric with the circle $x^2 + y^2 + 4x - 2y + 6 = 0$ and has a radius which is 3 units?

9. What is the equation of a circle having the extremities of the diameter as $(1, 5)$ and $(-2, 8)$?
10. Find the equation of a circle making equal intercepts of 8 units on the coordinate axis, in the first quadrant.



**When you learn math
in an interesting way,
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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)	$(x - 5)^2 + (y - 7)^2 = 9$
2)	$(x + 2)^2 + (y - 5)^2 = 64$
3)	$6\sqrt{6}$ units
4)	$(x + 3)(x + 5) + y(y - 8) = 0$
5)	$(x - 15)^2 + (y - 8)^2 = 17^2$
6)	$x^2 + (y - 5 + \sqrt{65})^2 = 81$

7)	$(x - 4)^2 + (y - 4)^2 = 40$
8)	$x^2 + y^2 + 4x - 2y - 4 = 0$
9)	$(x + 2)(x - 1) + (y - 5)(y - 8) = 0$
10)	$x^2 + y^2 - 8x - 8y = 0$