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The Equation of a Circle with center (x_1, y_1) and radius r is:



Write the equation of a circle whose center is (5, -4) and whose radius is 2. I) $(X-5)^2 + (y-(-4))^2 = 2^2$

 $\frac{\left((\chi-5)^2 + (\chi+4)^2 - \chi\right)}{(\chi-5)^2 + (\chi+4)^2 - \chi}$ Write the equation of a circle whose center is (-5, 3) and whose radius is 13.

2)

$$(\chi + 5)^2 + (\gamma - 3)^2 = 169$$

Write the equation of a circle whose center is the origin and whose radius is 8. 3)

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Identify the radius and center of a circle whose equation is $(x + 7)^2 + (y - 8)^2 = 121$ 4)

$$C = (-7, 8)$$
$$C = 1$$

Identify the radius and center of a circle whose equation is $(x - 3)^2 + (y + 6)^2 = 49$ 5)

6) Write the equation of a circle with center at the origin and a diameter of 12.

6=6

$$(x^2 + y^2 = 36)$$



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