

9. If the center of a circle is (5,6) and its radius is 4, then the standard form of the equation for this circle is:

Note: r: horizontal axis, c: vertical axis

$$(-5 + r)^2 + (-6 + c) = 16$$

$$(5 + r)^2 + (6 + c)^2 = 4$$

$$(-5 + r)^2 + (-6 + c)^2 = 16$$

$$(5 + r)^2 + (6 + c)^2 = 16$$

Solution

This circle has the center (5,6) with radius 4

So, it has the equation:

$$(-5 + r)^2 + (-6 + c)^2 = 16$$

