

3. If the center of a circle is $(4,6)$ and its radius is 7, then the standard form of the equation for this circle is:

Note: y : horizontal axis, n : vertical axis

$$(-4 + y)^2 + (-6 + n) = 49$$

$$(4 + y)^2 + (6 + n)^2 = 7$$

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Solution

This circle has the center $(4,6)$ with radius 7
So, it has the equation:

$$(-4 + y)^2 + (-6 + n)^2 = 49$$

