

5. If the center of a circle is $(-3,1)$ and its radius is 4, then the standard form of the equation for this circle is:

Note: q: horizontal axis, b: vertical axis

$$(3 + q)^2 + (-1 + b) = 16$$

$$(-3 + q)^2 + (1 + b)^2 = 4$$

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Solution

This circle has the center $(-3,1)$ with radius 4
So, it has the equation:

$$(3 + q)^2 + (-1 + b)^2 = 16$$

