

6. If the center of a circle is $(-1,6)$ and its radius is 2, then the standard form of the equation for this circle is:

Note: q: horizontal axis, a: vertical axis

$$(1 + q)^2 + (-6 + a) = 4$$

$$(-1 + q)^2 + (6 + a)^2 = 2$$

$$(1 + q)^2 + (-6 + a)^2 = 4$$

$$(-1 + q)^2 + (6 + a)^2 = 4$$

Solution

This circle has the center $(-1,6)$ with radius 2

So, it has the equation:

$$(1 + q)^2 + (-6 + a)^2 = 4$$

