

9. If the center of a circle is  $(3,6)$  and its radius is 2, then the standard form of the equation for this circle is:

**Note:** v: horizontal axis, m: vertical axis

$$(-3 + v)^2 + (-6 + m) = 4$$

$$(3 + v)^2 + (6 + m)^2 = 2$$

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### Solution

This circle has the center  $(3,6)$  with radius 2  
So, it has the equation:

$$(-3 + v)^2 + (-6 + m)^2 = 4$$

