

8. If the center of a circle is  $(4,0)$  and its radius is 4, then the standard form of the equation for this circle is:

**Note:** b: horizontal axis, r: vertical axis

$$(-4 + b)^2 + (r) = 16$$

$$(4 + b)^2 + (r)^2 = 4$$

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### Solution

This circle has the center  $(4,0)$  with radius 4  
So, it has the equation:

$$(-4 + b)^2 + (r)^2 = 16$$

