

8. If the center of a circle is  $(0,1)$  and its radius is 5, then the standard form of the equation for this circle is:

**Note:** n: horizontal axis, j: vertical axis

$$(n)^2 + (-1 + j) = 25$$

$$(n)^2 + (1 + j)^2 = 5$$

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### Solution

This circle has the center  $(0,1)$  with radius 5  
So, it has the equation:

$$(n)^2 + (-1 + j)^2 = 25$$

