

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

**Note:** e: horizontal axis, s: vertical axis

$$(-1 + e)^2 + (-5 + s) = 25$$

$$(1 + e)^2 + (5 + s)^2 = 5$$

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## Solution

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

$$(-1 + e)^2 + (-5 + s)^2 = 25$$

