

5. If the center of a circle is $(0, -3)$ and its radius is 3, then the standard form of the equation for this circle is:

Note: t: horizontal axis, z: vertical axis

$$(t)^2 + (3 + z) = 9$$

$$(t)^2 + (-3 + z)^2 = 3$$

$$(t)^2 + (3 + z)^2 = 9$$

$$(t)^2 + (-3 + z)^2 = 9$$

Solution

This circle has the center $(0, -3)$ with radius 3
So, it has the equation:

$$(t)^2 + (3 + z)^2 = 9$$

