9. If the center of a circle is (0,5) and its radius is 2, then the standard form of the equation for this circle is:
Note: m: horizontal axis, e: vertical axis

$(m)^2 + (-5 + e) = 4$

$(m)^2 + (5 + e)^2 = 2$

$(m)^2 + (-5 + e)^2 = 4$

$(m)^2 + (5 + e)^2 = 4$

Solution

This circle has the center (0,5) with radius 2
So, it has the equation:

$(m)^2 + (-5 + e)^2 = 4$