then the standard form of the equation for this circle is: Note: m: horizontal axis, c: vertical axis  $(-3+m)^2 + (2+c) = 16$ 

9. If the center of a circle is (3,-2) and its radius is 4,

$$(3+m)^{2}+(2+c)^{2}=16$$
(3+m)<sup>2</sup>+(-2+c)<sup>2</sup>=16

Solution

This circle has the center (3,-2) with radius 4
So, it has the equation:

 $(3 + m)^2 + (-2 + c)^2 = 4$ 

