then the standard form of the equation for this circle is: Note: r: horizontal axis, c: vertical axis  $(-1+r)^2 + (1+c) = 9$ 

1. If the center of a circle is (1,-1) and its radius is 3,

$$(-1+r)^{2}+(1+c)^{2}=9$$

$$(1+r)^{2}+(-1+c)^{2}=9$$
Solution
This circle has the center  $(1,-1)$  with radius 3 So, it has the equation:  $(-1+r)^{2}+(1+c)^{2}=9$ 

 $(1 + r)^2 + (-1 + c)^2 = 3$ 

