1. If the center of a circle is (1,2) and its radius is 2, then the standard form of the equation for this circle is:
Note: n: horizontal axis, c: vertical axis

$(-1 + n)^2 + (-2 + c) = 4$

$(1 + n)^2 + (2 + c)^2 = 2$

$(-1 + n)^2 + (-2 + c)^2 = 4$

$(1 + n)^2 + (2 + c)^2 = 4$

Solution

This circle has the center (1,2) with radius 2
So, it has the equation:
$(-1 + n)^2 + (-2 + c)^2 = 4$