4. If the center of a circle is $(0,-1)$ and its radius is 2, then the standard form of the equation for this circle is:
Note: g: horizontal axis, p: vertical axis

$(g)^2 + (1 + p) = 4$

$(g)^2 + (-1 + p)^2 = 2$

$(g)^2 + (1 + p)^2 = 4$

$(g)^2 + (-1 + p)^2 = 4$

Solution

This circle has the center $(0,-1)$ with radius 2
So, it has the equation:

$(g)^2 + (1 + p)^2 = 4$