4. If the center of a circle is (4,−2) and its radius is 2, then the standard form of the equation for this circle is:
Note: f: horizontal axis, n: vertical axis

$(-4 + f)^2 + (2 + n) = 4$

$(4 + f)^2 + (-2 + n)^2 = 2$

$(-4 + f)^2 + (2 + n)^2 = 4$

$(4 + f)^2 + (-2 + n)^2 = 4$

Solution

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

$(-4 + f)^2 + (2 + n)^2 = 4$