Geometry

10.7 Write and Graph Equations of Circles

Standard equation of a circle

__________________________________________

(h, k) is the _________ of the circle and r is the _________

Identify the center and radius of the given circles

(x – 3)^2 + (y + 2)^2 = 16

x^2 + (y + 3)^2 = 4

Graph Circles

To graph, plot the ____________ point.
Then go ____________, ____________, ____________, and ____________ from the center the distance of the ____________.
You now have ____________ points around the ____________.
Connect the points with a ____________.

Write an equation for a circle with center (2, -4) and \( r = \sqrt{3} \)

Graph \((x - 4)^2 + (y + 2)^2 = 36\) and the line \( y = 2x - 2 \) and state whether the line is a tangent or secant.

Assignment: 702 #2-38 even, 42, 46-54 even = 25
Extra Credit: 705 #2, 4 = +2