Honors Precalculus with Trigonometry (OM013)
Problem Set 1

Name: _____

Please show all work because you will be graded on the clarity of your explanation as well as the correctness of your work. An answer with no work/explanation will receive zero credit.

1. Find the center-radius form of the equation of the circle with center at (-7, -4) and tangent to the x-axis. (Hint: A line tangent to a circle touches it at exactly one point.)

2. Decide whether or not the equation has a circle as its graph. If it does, give the center and the radius. If it does not, describe the graph: $x^2+y^2+6x-8y+26=0$

3. Determine whether the relation is a function.
c ={(7, 5), (-6, -5), (2, -2), (3, -6)}