Review Sheet – 3

Circles and Parabola

- 1. Find the center and radius of the circle given by the equation $x^2 + y^2 + 4x 6y + 9 = 0$. Draw the graph, label the 4 points on the graph with the coordinates.
- 2. Given; Center = (3, 4), radius = 5 units.Find the equation of the circle.
- 3. Find the center and radius of the circle with the equation: $x^2 + y^2 + 8x 2y 32 = 0$. Graph the circle and label 4 points with their coordinates.
- 4. Solve the quadratic equation $-x^2 + 8x 2 = 0$. Graph the function and label the x intercepts on your graph.
- 5. Given $\Theta = 300^{\circ}$, Find $\sin(300)$.
 - a) Identify the quadrant.
 - b) Find the reference angle.
 - c) Calculate the exact value.
- 6. Given, $\cos \theta = \frac{1}{2}$, $\tan \theta = \text{negative}$. Find the value of $\sin \theta$. Show the picture.
- 7. P (3, -2) is a point on the terminal side of θ . Find all trig values of θ . Show the picture.