Assignment #7-5   Secondary 3 Honors

PreCalculus Book: Pg. 327   1, 3, 4, 5, 6, 7, 9, 15, 18, 34, 35, 40, 42, 45, 47, 52, 81b, 85b, 102, 105

Additional Problems:

1.   Find all values of θ where $0° \leq \theta \leq 360°$. Do not use a calculator.

   a. $sin\theta = -\dfrac{1}{2}$ b. $tan\theta = 1$ c. $cos\theta = 0$

2.   Graph the piecewise function. $g(x) = \begin{cases} |x-2| & x > 0 \\ -x^2 + 1 & x \leq 0 \end{cases}$
       Is the function $g(x)$ continuous?

3.   If $\dfrac{dy}{dx} = \lim\limits_{h \to 0} \dfrac{(x+h)^2 - x^2}{h}$ what does $y =$ _____ ? (Hint: think backwards.)

Identify the following for the given graph.

4.   Coordinates of the vertex.

5.   Equation of the parabola.

6.   What is f(0)?

7.   What is the domain?