Gr 11 RF2 Section 6.1 & 6.2 Assignment Name: _____

1. Page 278 # 1 – 5
2. Page 287: # 1, 3, 4, 5, 6, 9, 11, 13 & 16
3. Short Answer

1. Fill in the table for the relation $y = x^2 + 2x + 11$.

***y*-intercept**	
***x*-intercept(s)**	
Axis of symmetry	
Vertex	
Domain	
Range	

2. Make a table of values, then sketch the graph of the relation $y = -x^2 - 4x + 12$.

3. A skier's jump can be modelled by the function $y = -4.9x^2 + 3.2x + 2.5$, where y is the skier's height above the ground, in metres, and x is the time, in seconds, that the skier is in the air.
   a) Use technology to graph the function.
   b) Determine the coordinates of the vertex.
   c) Determine the skier's maximum height and state the range of this function.