Math 113 Name:_____

Quiz #3

1. Assume that the cost of producing snowboards is linearly related to the number of snowboards you produce. If you produce 10 snowboards it costs you $600 and if you produce 30 snowboards it will cost you $1600. Find an equation that expresses the cost of snowboards in terms of the number of snowboards produced.
   Equation for the Cost of Producing Snowboards: _____

2. There is a linear relationship between degrees Fahrenheit (F) and degrees Celsius(C). If the temperature is reported as 10°C then can also be reported as 50°F and if the temperature is reported as 25°C, then it can also be reported as 77°F. Find the linear relationship between degrees Fahrenheit and degrees Celsius._____

3. The following lines intersect, determine the point of intersection.

   L1: $4x+y = 6$ L2: $4x-2y=0$ Pt. Of Intersection _____

Extra Credit: Find the equation of a line that is (a) perpendicular and (b) parallel to the line $y = 3x-15$ and contains the point (3,5)