Assignment #4 Math 135

1) Solve the following equation for x: $2x-3y=5z$

2) What is the equation of a line parallel to the line y = **-**3x – 6 and also passes through the point (-3, 4)?

3) If x varies directly as y, and x = 3 when y = 4, what is the value of x when y = 14?

4) What are the coordinates of the vertex in the parabola y = 2x2 + 4x – 3 ?

5) Solve the equation: 2x2 – 3x + 8 = 7

6) Solve using the quadratic formula: x2 – 2x + 1 = 0

7) If the measure of Angle A in a triangle is 48o and the measure of side a = 10m and the measure of Angle B = 74o, find all the missing dimensions in the triangle.

8) If you invest $1,500 and you lose money at a rate of 14% a month, then how much money would you have after 7 months?

9) Expand the expression: log $\frac{(4x^{2}y^{3})}{z^{3}}$