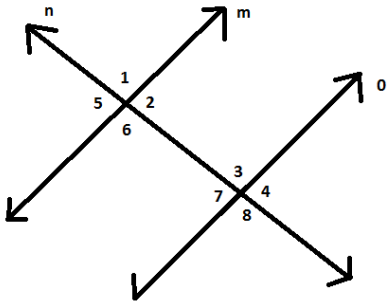
Name: _____ Geometry
Date: _____ Review
Class: _____ Graded Homework 3

Show all of your work for every problem. The numbers in the brackets are the points that each problem is worth. Multiple Choice Problems are worth 3.
NO WORK = ZERO CREDIT

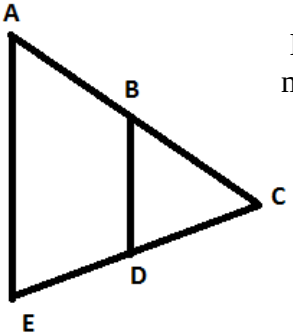
1) [4] 

If m<1 = $2x^2 + 2x + 14$, m<3 = 12x + 26, and m<2 = $x^2 + 6x + 10$, explain if line m and line o are parallel.

2) [3] If a segment has endpoints (-6, -8) and (-12, -15) find the coordinates of its midpoint.

3) [3] If two complimentary angles have measurements represented by 3x + 15 and 5x + 3, find the difference between their measurements.

4) [3] Solve: $x^2 - 10x - 16 = 0$

5) [3] 

If m<CBD = 4x + 11, m<CDB = 5x – 8, and m<ABD = 6x + 9, find m<BDE and explain.

6) [3] If a segment TB has endpoints (-1, -8) and (19, 2) find point W such that TW:WB = 7:3.

7) [3] If segment MP has midpoint E, ME = 5x + 2 while PE = 6x – 1, find and explain the MP.

8) [4] Two angles have the following relationship: the measurement of angle 2 is 8 less than twice the measurement of angle 1. If you subtract 4 from angle 2 and add 5 to angle 1 they will both have the same measurement. What is the measurement of each angle?