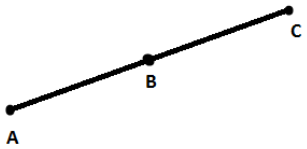
Name: _____ Geometry
Date: _____ Unit 2
Class: _____ HW 2-4

1) Factor: $x^2 - 10x + 16$

2) Factor: $2x^2 - 16x - 18$

3) Solve: $6x^2 - 3 = 7x$

4) 

B is the midpoint of $\overline{AC}$

If AB = $x^2 + 15$ and BC = $2x^2 + 3x + 5$ find and explain AC

5) <SML has ray MT splitting the angle into two parts. m<SML = $3x^2 + 2x + 16$, m<SMT = $x^2 + 5x + 5$, and m<TML = $x^2 + 3x + 3$. Find the value of x.

6) How much longer (to the nearest tenth) is segment MT with endpoints (6, -7) and (-4, -3) than segment UR with endpoints (10, 4) and (7, -3)?

7) If segment RY has point H on it and the following is true, what would be the ratio that represents RH:YH? RH = x + 2, HY = 3x + 1, RY = 6x – 3.