**Math II**

Homework #1

**On a separate sheet of paper, copy and solve the following problems. SHOW YOUR WORK!**

1. Find the perimeter of a rectangle whose length is (m + 2n – p) units and whose width is (4m + 2n – 5p).

2. Simplify: (-4y3 – y + 10) – (4y3 + 3y2 – 7)

3. Find the area of a square whose side measures (10m + 3) units.

4. Simplify: (x + 5)(2x – 1)

5. Find the volume of a box whose length is 9x + 1, width is 2x and height is 3x – 5.

6. Simplify: (3 + a2 + 2a) + (a2 – 8a + 5)

7. Factor: 2x2 + 7x + 5

8. Solve: 5n2 + 27n + 10 = 0

9. Find the discriminant of the equation x2 + 3x – 4 = 0. Determine the number of x-intercepts.

10. Use the quadratic formula to solve x2 + 3x – 4 = 0.