Assignment #3-3

Secondary 3 Honors

PreCalculus Book:

Pg. A72 – A74 2, 6, 17, 20, 23, 55, 57, 59, 63, 81

Pg. 176 110, 112, 117

Carnegie Book:

Pg. 279 #4 (a, b, c)

Additional Problems: Complete these problems on a separate sheet of paper.

1. Solve the inequalities

a.
$$-3x^2(5x-2)^3(x+1)^2 \le 0$$

b. $(x-3)^2(x+4)(x-4) > 0$

2. Solve the inequality using your graphing calculator:
$$\sqrt{2x^2 - 4x + 7} < -12x^2 + 8x + 15$$

- 3. List the possible rational roots for the polynomial $f(x) = x^3 4x^2 + 2x 8$
- 4. Use the factor theorem to determine which of the possible roots from #3 are actually zeros for f(x).
- 5. Given the two points (-5, 2) and (7, 6)
 - a. Find the slope of the line between the two points
 - b. Find the equation of the line between the two points.Leave your answer in point-slope form.