Honors Pre-Calc **11-1-07**

1. Solve the inequality using a sign chart. Support graphically.

$$(2x+1)(x-2)(3x-4) \leq 0$$

2. Determine the x values that cause the polynomial function to be
   a. 0
   b. $f(x) < 0$
   c. $f(x) \le 0$
   d. $f(x) > 0$
   e. $f(x) \ge 0$

$$f(x) = (x+2)^3 (4x^2 + 1)(x-9)^4$$

3. Solve the inequality graphically.

$$x^3 - 4x^2 - x + 4 \leq 0$$

4. Determine the values of x that cause the function to be
   a. 0
   b. $f(x) < 0$
   c. $f(x) \le 0$
   d. $f(x) > 0$
   e. $f(x) \ge 0$

$$f(x) = \frac{3x-1}{(x-3)\sqrt{x+5}}$$

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