PRECALCULUS

Wed., Sept. 21

Sec. 2-2 pp. 104-106
   13, 14, 15, 17, 23, 25, 27, 50-53, 64-67,
   75, 80, a, b & c at right.

Polynomial Equations Handout

Find the real zeros using your calculator:
(Menu—Analyze Graph—Zero)
a) $3x^3 - 39x^2 - 106.47x + 463.05$

Write the equation of a polynomial with the given roots.
b) -3, ½, 4   c) 2, $4 + \sqrt{5}, 4 - \sqrt{5}$

Fri., Sept. 23

Sec. 2-5 p. 138 35, 40, a, b at right

Sec. 2-6 c, d, e

Simplifying Rational Expressions Handout

(a) $\frac{2}{x+2} + \frac{3}{x} = \frac{-x}{x+2}$ (b) $1 = \frac{1}{1-y} + \frac{y}{y-1}$

(c) $5 + \frac{1}{x} > \frac{16}{x}$ (d) $\frac{4}{x+1} \le \frac{3}{x-2}$ (e) $1 + \frac{5}{a-1} < \frac{7}{6}$

Tues., Sept. 27

Partial Fractions Handout #2-6

Sec. 2-1 pp. 92-93
   52, 54

Thurs., Sept. 29

Review Polynomial & Rational Functions

Journal Due

Mon., Oct. 3

Polynomial & Rational Functions Test

<u>**Sec. 2-1 pp. 92-93**</u>
52. 2, 10
54. -1

<u>**Sec. 2-2 pp. 104-106**</u>
14. $\lim\limits_{x \to -\infty} f(x) = \infty$, $\lim\limits_{x \to +\infty} f(x) = +\infty$
50. No, there is a sharp turn at x = 2
52. Yes
64. even, positive
66. odd, negative
80b. $f(x) = -0.009x^3 - 0.230x^2 + 2.305x + 3.796$
   c. $f(x) = 0.012x^4 - 0.225x^3 + 0.978x^2 + 0.152x + 4.312$
   d. Quartic function; It has a higher correlation coefficient and follows the appropriate end behavior.
a. -4.2, 2.5, 14.7
b. $2x^3 - 3x^2 - 23x + 12 = 0$
c. $x^3 - 10x^2 + 27x - 22 = 0$

<u>**Sec. 2-5 p. 138**</u>
40. 7, 1
a. -3
b. $(-\infty, 1) \cup (1, \infty)$

<u>**Sec. 2-6 p. 145**</u>
c. $(-\infty, 0) \cup (3, \infty)$
d. $(-\infty, -1) \cup (2, 11]$
e. $(-\infty, 1) \cup (31, \infty)$