

PRECALCULUS

Wed., Sept. 20

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) $-3, \frac{1}{2}, 4$ c) $2, 4 + \sqrt{5}, 4 - \sqrt{5}$

Fri., Sept. 22

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

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

Sec. 2-6 c, d, e

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

Simplifying Rational Expressions Handout

Tues., Sept. 26

Partial Fractions Handout #2-6

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

Thurs., Sept. 28

Review Polynomial & Rational Functions

Journal Due

Mon., Oct. 2

Polynomial & Rational Functions Test

Sec. 2-1 pp. 92-93

52. 2, 10
54. -1

Sec. 2-2 pp. 104-106

14. $\lim_{x \rightarrow -\infty} f(x) = \infty, \lim_{x \rightarrow +\infty} f(x) = +\infty$
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. $x^3 - 10x^2 + 27x - 22 = 0$

Sec. 2-5 p. 138

40. 7, 1
 a. -3
 b. $(-\infty, 1) \cup (1, \infty)$

Sec. 2-6 p. 145

- c. $(-\infty, 0) \cup (3, \infty)$
 d. $(-\infty, -1) \cup (2, 11]$
 e. $(-\infty, 1) \cup (31, \infty)$