ALGEBRA 2

Mon., Feb. 7/Tues., Feb. 8

Sec. 7.3 pp. 380-382
21, 22, 18, 45, 46, a, b, c

Sec. 7.4 pp. 388-390
17, 18, 21, 23, d, e, f

a) $\frac{t^4-16}{24-6t^2}\cdot\frac{3t^3+24}{t^2-2t+4}$ b) $\frac{p^2+7p}{3p}\div\frac{49-p^2}{21-3p}$

c) $\frac{x^3+3x^2-4x-12}{x^3+27}\div\frac{2x-x^2}{2x^2-6x+18}$ d) $\frac{2x+4}{x^2-x}+\frac{x+4}{x-x^3}$

e) $\frac{m^2+n^2}{m^2-n^2}+\frac{m}{n-m}+\frac{n}{m+n}$ f) $\frac{p+1}{p^2-1}+\frac{p-1}{p^2+2p+1}$

Wed., Feb. 9/Thurs., Feb. 10

Sec. 7.4 pp. 388-390
41-44

Sec. 7.5 pp. 396-398
7, 22, 25, 30, a, b, c, 31, 32

Regression Projects Due Today!

a) $\frac{2}{y+2}-\frac{y}{2-y}=\frac{y^2+4}{y^2-4}$ b) $\frac{x}{5x-10}-\frac{1}{x^2-4}=\frac{2}{5}$

c) $\frac{5b^2+6b-3}{3b^2+14b+8}-\frac{1}{b+4}=\frac{b}{3b+2}$

Fri., Feb. 11/Mon., Feb. 14

Graphing Rational Functions Handout

Applications of Rational Functions Handout

Tues., Feb. 15/Wed., Feb. 16

Review Rational Functions

Journal Due

Thurs., Feb. 17/Fri., Feb. 18

Rational Functions Test

ANSWERS

Sec. 7.3 pp. 380-382

18. $\dfrac{(x-3)(x+1)}{2x^2(x+3)}$

22. Needed to change $3-x$ to $-(x-3)$ in order to cancel

46. $x-6$

a) $\dfrac{-(t+2)(t^2+4)}{2}$

b) 1

c) $\dfrac{-2(x+2)}{x}$

Sec. 7.4 pp. 388-390

18. Did not multiply the numerators by the needed quantities to make the common denominators

d) $\dfrac{2x+5}{(x+1)(x-1)}$

e) 0

f) $\dfrac{2(p^2+1)}{(p+1)^2(p-1)}$

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42. $\dfrac{8x(x+1)}{(5x+3)(x-2)}$

44. $\dfrac{3x}{4(x-1)}$

Sec. 7.5 pp. 396-398

22. $x=1$

30. $x=\dfrac{-1\pm\sqrt{79}}{3}$

32. Did not multiply the constant 4 times the common denominator

a) No solution

b) $x=-1,\ x=3$

c) $x=-1,\ x=\dfrac{5}{4}$