

ALGEBRA 2

Mon., Feb. 10/Tues., Feb. 11

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

$$\begin{array}{ll} \text{a) } \frac{t^4 - 16}{24 - 6t^2} \cdot \frac{3t^3 + 24}{t^2 - 2t + 4} & \text{b) } \frac{p^2 + 7p}{3p} \div \frac{49 - p^2}{21 - 3p} \\ \text{c) } \frac{x^3 + 3x^2 - 4x - 12}{x^3 + 27} \div \frac{2x - x^2}{2x^2 - 6x + 18} & \text{d) } \frac{2x + 4}{x^2 - x} + \frac{x + 4}{x - x^3} \\ \text{e) } \frac{m^2 + n^2}{m^2 - n^2} + \frac{m}{n - m} + \frac{n}{m + n} & \text{f) } \frac{p + 1}{p^2 - 1} + \frac{p - 1}{p^2 + 2p + 1} \end{array}$$

Wed., Feb. 12/Thurs., Feb. 13

Sec. 7.4 pp. 388-390

41-44

Sec. 7.5 pp. 396-398

7, 22, 25, 30, a, b, c, 31, 32

$$\begin{array}{ll} \text{a) } \frac{2}{y + 2} - \frac{y}{2 - y} = \frac{y^2 + 4}{y^2 - 4} & \text{b) } \frac{x}{5x - 10} - \frac{1}{x^2 - 4} = \frac{2}{5} \\ \text{c) } \frac{5b^2 + 6b - 3}{3b^2 + 14b + 8} - \frac{1}{b + 4} = \frac{b}{3b + 2} \end{array}$$

**B1 Regression
Projects Due
Today!**

Fri., Feb. 14/Tues., Feb. 18

Graphing Rational Functions Handout

Applications of Rational Functions Handout

**P1 & P4
Regression
Projects Due
Today!**

Wed., Feb. 19/Thurs., Feb. 20

Review Rational Functions

Journal Due

Fri., Feb. 21/Mon., Feb. 24

Rational Functions Test

ANSWERS

Sec. 7.3 pp. 380-382

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

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

46. $x-6$

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

b) 1

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

Sec. 7.4 pp. 388-390

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

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

e) 0

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

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

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

Sec. 7.5 pp. 396-398

22. $x=1$

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

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

a) No solution

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

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