Today's Learning Goal(s): Date: Feb. 13/17



By the end of the class, I will be able to:

a) multiply or divide two rational expressions and state the restrictions.

2.6 Multiplying and Dividing Rational Expressions

Ex.1 Simplify. State any restrictions on the variables.

a)
$$\frac{18}{3} \times \frac{25}{16} \times \frac{5}{16} \times \frac{15}{16} \times \frac{1$$

Simplify. State any restrictions on the variables.

d)
$$\frac{x^2 - x - 12}{2x^2 - 9x + 4} \div \frac{5x^2 - 45}{2x^2 + 11x - 6}$$

$$= \frac{(x-4)(x+3)}{(2x-1)(x-4)} = \frac{5(x^2-9)}{(6x-1)(x+6)}$$

$$= \frac{(x-4)(x+3)}{(2x-1)(x+6)} \times \frac{(6x-1)(x+6)}{5(x-3)(x+3)}$$

$$= \frac{x+6}{5(x-3)} \quad R: x+3, \frac{1}{2}, \frac{1}{4}, \frac{1}{4},$$

Are there any Homework Questions you would like to see on the board?

Last day's work: pp. 112-114 #(1 – 7)ace, 105
[16, 17]

Today's Homework Practice includes:

pp. 122-123 #(4 - 7)ac, 8, 9, 11 [13]

$$\frac{100}{8(2x-1)^{3}} = \frac{5(2(2x-1))}{8(2x-1)(2x-1)}$$

$$= \frac{10}{8(2x-1)(2x-1)}$$

$$= \frac{10}{2x+1}$$

$$\frac{10}{2x+1}$$

$$\frac{1}{2}$$