## Today's Learning Goal(s): Date: Feb. 12/18



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) 
$$\frac{18}{15} \times \frac{25}{160} = \frac{5}{15} \times \frac{15}{25} \times \frac{15}{8x} = \frac{5}{15} \times \frac{15}{25} \times \frac{$$

Simplify. State any restrictions on the variables.

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

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

$$= \frac{(x-4)(x+3)}{(3x-1)(x-9)} \times \frac{(3x-1)(x+6)}{5(x-3)(x+8)}$$

$$= \frac{x+6}{5(x-3)} + \frac{x+3}{3} + \frac{x+3}{3} + \frac{x+3}{3} + \frac{x+6}{3} + \frac{x+6}{$$

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

Last day's work: pp. 112-114 #(1 – 7)ace, 10

[16, 17]

Today's Homework Practice includes:

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

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**Discuss SWYK 1.1** (Return and Correct?)

## Please put your name at the top of each page, and submit:

Tuesday Wednesday

$$\frac{5(4x-3)}{8(2x-1)^{2}} = \frac{5(2)(2x-1)}{8(2x-1)(2x-1)} = \frac{5(2)(2x-1)}{8(2x-1)(2x-1)}$$

$$= \frac{5}{4(2x-1)}$$

$$= \frac{5}{4(2x-1)}$$