

# 5.3

Date:

Objective:

## REVIEW

1.  $\frac{14}{27} \div \frac{7}{9}$

## STEPS FOR MULTIPLYING AND DIVIDING RATIONAL EXPRESSIONS

1. FACTOR!!!!!!!!!!!!!!

2. **IF** divide, do stay change filp.

3. Make ones.

4. Write what is left. DO NOT MULTIPLY!

**EXAPMLES:** Simplify.

1.  $\frac{x}{2} \div \frac{3x}{5}$

2.  $\frac{9x}{25y^2} \cdot \frac{5y^5}{18x^3}$

3.  $\frac{2(x-5)}{(x-4)(x+3)} \cdot \frac{x-3}{x-5}$

4.  $\frac{5x-10}{3x^2-5x-2} \div \frac{10}{-9x^2+1}$

5.  $\frac{8x^3-27}{8x^2-10x-3} \cdot \frac{12x+3}{20x^2+30x+45}$

6.  $\frac{7x^2+35x+28}{x+1} \div \frac{x^2-16}{x^2+6x-7}$