**Unit 3 Day 2: Adding & Subtracting Rational Expressions Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Ex 1)** $\frac{2}{5}-\frac{7}{3}$

**Monomial Denominators -FIND A COMMON DENOMINATOR!**

1. Determine what each denominator has that the other denominator is missing

2. Multiply top & bottom by **what is needed** to give you the common denominator

3. Combined the numerators & simplify/reduce

**Ex 2) **

**Ex 3) **

**Ex 4) **

**You Try! Simplify: **

**Ex 6)** 

$$\frac{-3x}{\left( \right)( )}-\frac{4}{\left( \right)( )}$$

**You Try!** 

**Ex 7)** 

**Ex 5)** 

$$\frac{y}{\left( \right)( )}-\frac{3}{y+2}$$

$$\frac{y}{2(y+2)}-\frac{(3)}{(y+2)}∙$$

**Polynomial Denominators – FIND A COMMON DENOMINATOR**

1. Always start by **factoring** any polynomial you can

2. Multiply the top and bottom by what is needed to give you a common denominator

3. Combined the numerators & simplify/reduce