**12.6: Add and Subtract Rational Expressions:**

**Goals:** \*Add/Subtract rational expressions with a common denominator

\*Find the least common denominator of rational expressions

\*Add/subtract rational expressions with unlike denominators

**Add/subtract rational expressions with the same denominator:**

**Ex:  Ex:  Ex: **

**Ex:  Ex:  Ex: **

**Find least common denominator:**

**\*\*HINT:** If you had  what would be the quickest way to find a common denominator? Multiply the denominators together.

**Ex: ** and  **Ex: ** and **Ex: **and 

LCD: 20*r*² LCD: (*x* – 3)²(*x* + 2) (*c* – 2)(2*c* + 7)

**Add expressions with different denominators:**

**Ex:  Ex: **

**Ex:  Ex: **

**Ex:  Ex: **

**Ex:  Ex: **

**Ex: **