**Adding and Subtracting Rational Expressions**

Recall: to add or subtract fractions, we must first find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1.

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

* determine what each denominator has that the other denominator is missing
* multiply top and bottom by whatever is missing-to give you the common denominator

**Example 1:**

**Example 2:**

**Example 3:**

**Example 4: **

**Polynomial Denominators** – **FACTOR & FIND A COMMON DENOMINATOR!**

* Always start by *factoring* polynomial denominators
* Multiply top and bottom by whatever is missing and then combine the numerators

**Example 5:**

**Example 6:**  

**Example 7:** 

**Example 8:** 

**Example 9:** 

**Example 10:**