**Adding and Subtracting Rational Expressions**

***Addition of fraction*** depends on the kinds of denominator the fraction have.

1. To add two fractions with the same denominator, use.

2. To add two fraction with different denominators, use.

**Least Common Denominator**

The **least common denominator**, or simply LCD, of a set fraction is the least common multiple of the denominators of the given fractions.

**Sample Problem 1:** Add or subtract the following rational expressions with the same denominator.

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| 1. | Solution: | 2. | Solution: |
| 3. | Solution: | 4. | Solution: |
|  |  |  |  |

**Sample Problem 2:** Add or subtract the rational expressions with different denominator.

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| 5. | Solution:  LCD: | 6. | Solution:  LCD: |
| 7. | Solution:  LCD: | 8. | Solution:  LCD: |