**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.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 2. |  |
| 3. |  | 4. |  |
|  |  |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| 5. |  | 6. |  |
| 7. |  | 8. |  |