**Adding or Subtracting Radical Expressions**

***\*\*You can only add or subtract radical expressions if they have the SAME radicand and index.\*\****

Step 1: Simplify all radicals completely.

Step 2: \_\_\_\_\_\_\_\_\_\_\_\_ the outside terms of common radicands. The radicand and index do \_\_\_\_\_\_\_\_\_\_ change.

**Examples: Simplify completely.**

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

**Multiplying Radical Expressions**

**\*\*You can only multiply radicals with the same index.\*\***

Step 1: Multiply whatever is “\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_” of the radical.

Step 2: Multiply whatever is on the “\_\_\_\_\_\_\_\_\_\_\_\_\_” of the radical.

Step 3: Simplify the radical completely.

**Examples: Simplify completely.**

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