

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Adding & Subtracting Radicals

**Steps for Adding/Subtracting:**

1. You can only add or subtract radicals that have the \_\_\_\_\_ radicand.
2. Add/Subtract ONLY the number \_\_\_\_\_ the radical.
3. \_\_\_\_\_ if possible.

Add or Subtract:

1.  $4\sqrt{3} - 12\sqrt{3}$

2.  $\sqrt{32} + 2\sqrt{2}$

3.  $3\sqrt{12} + 4\sqrt{3}$

4.  $5\sqrt{10} + 4\sqrt{10} - \sqrt{10}$

5.  $2\sqrt{3} - 6\sqrt{3} - 3\sqrt{3}$

6.  $\sqrt{8a} - \sqrt{2a}$

7.  $\sqrt{7x} + \sqrt{2} + 3\sqrt{7x}$

8.  $6\sqrt{7} + 3\sqrt{3} - 2\sqrt{7}$

9.  $\sqrt{2} - 4\sqrt{6} + 5\sqrt{2} + \sqrt{6}$

10.  $7\sqrt{18} + 2\sqrt{50}$

11.  $8\sqrt{5} - 2\sqrt{45}$

12.  $\sqrt{18x^2} + 2x\sqrt{2}$