

Student Name: _____

Score: _____

Add the Radicals

$$2\sqrt{5} + 4\sqrt{5} = \underline{\hspace{2cm}}$$

$$\sqrt{3} + 9\sqrt{3} = \underline{\hspace{2cm}}$$

$$4\sqrt{7} + 6\sqrt{7} = \underline{\hspace{2cm}}$$

$$7\sqrt{2} + 5\sqrt{2} + \sqrt{2} = \underline{\hspace{2cm}}$$

$$\sqrt{3} + 3\sqrt{3} + \sqrt{3} = \underline{\hspace{2cm}}$$

$$6\sqrt{5} + \sqrt{5} + \sqrt{5} + \sqrt{5} = \underline{\hspace{2cm}}$$

$$\sqrt{7} + \sqrt{2} + \sqrt{7} + \sqrt{2} = \underline{\hspace{2cm}}$$

$$\sqrt{3} + 2\sqrt{3} + \sqrt{2} = \underline{\hspace{2cm}}$$

$$4\sqrt{2} + 9\sqrt{2} + 3\sqrt{2} = \underline{\hspace{2cm}}$$

Student Name: _____

Score: _____

Subtraction of Radicals

$$9\sqrt{3} - 3\sqrt{3} = \underline{\hspace{2cm}}$$

$$6\sqrt{5} - 2\sqrt{5} = \underline{\hspace{2cm}}$$

$$4\sqrt{5} - \sqrt{5} = \underline{\hspace{2cm}}$$

$$8\sqrt{7} - 2\sqrt{7} = \underline{\hspace{2cm}}$$

$$12\sqrt{13} - 10\sqrt{13} = \underline{\hspace{2cm}}$$

$$8\sqrt{2} - \sqrt{2} = \underline{\hspace{2cm}}$$

$$21\sqrt{5} - 6\sqrt{5} = \underline{\hspace{2cm}}$$

$$11\sqrt{7} - 5\sqrt{7} = \underline{\hspace{2cm}}$$

$$\sqrt{5} - \sqrt{5} = \underline{\hspace{2cm}}$$

Name : _____ Score : _____
Teacher : _____ Date : _____

Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

1) $-\sqrt{11} - \sqrt{11}$

6) $2\sqrt{45} - 2\sqrt{45}$

2) $-4\sqrt{7} - 6\sqrt{7} + 4\sqrt{28}$

7) $-\sqrt{96} + \sqrt{96} - \sqrt{96}$

3) $\sqrt{27} + \sqrt{27} - \sqrt{27}$

8) $2\sqrt{112} - 6\sqrt{112}$

4) $7\sqrt{7} - 8\sqrt{7} + 2\sqrt{112}$

9) $\sqrt{27} + \sqrt{63} - \sqrt{48}$

5) $\sqrt{6} - \sqrt{96}$

10) $-4\sqrt{44} + \sqrt{12} - 4\sqrt{176} - \sqrt{27}$