

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

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

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

## Adding and Subtracting Radical Expressions

**Simplify the Radical Expressions.**

1)  $\sqrt{7} + \sqrt{7} - \sqrt{63}$

6)  $-8\sqrt{27} + 2\sqrt{63} - 7\sqrt{48} - 6\sqrt{28}$

2)  $-\sqrt{63} + 8\sqrt{63}$

7)  $\sqrt{3} - \sqrt{3} - \sqrt{3}$

3)  $-\sqrt{2} - \sqrt{2}$

8)  $-5\sqrt{6} - 4\sqrt{96}$

4)  $-7\sqrt{8} + 8\sqrt{12} - 2\sqrt{18}$

9)  $-\sqrt{99} + \sqrt{99}$

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

10)  $9\sqrt{7} + 4\sqrt{7} - 8\sqrt{112}$



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## Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

$$1) \quad \sqrt{7} + \sqrt{7} - \sqrt{63} \\ -\sqrt{7}$$

$$6) \quad -8\sqrt{27} + 2\sqrt{63} - 7\sqrt{48} - 6\sqrt{28} \\ -52\sqrt{3} - 6\sqrt{7}$$

$$2) \quad -\sqrt{63} + 8\sqrt{63} \\ 21\sqrt{7}$$

$$7) \quad \sqrt{3} - \sqrt{3} - \sqrt{3} \\ -\sqrt{3}$$

$$3) \quad -\sqrt{2} - \sqrt{2} \\ -2\sqrt{2}$$

$$8) \quad -5\sqrt{6} - 4\sqrt{96} \\ -21\sqrt{6}$$

$$4) \quad -7\sqrt{8} + 8\sqrt{12} - 2\sqrt{18} \\ -20\sqrt{2} + 16\sqrt{3}$$

$$9) \quad -\sqrt{99} + \sqrt{99} \\ 0$$

$$5) \quad -\sqrt{5} - \sqrt{5} \\ -2\sqrt{5}$$

$$10) \quad 9\sqrt{7} + 4\sqrt{7} - 8\sqrt{112} \\ -19\sqrt{7}$$

