

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

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

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

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

## Adding and Subtracting Radical Expressions

**Simplify the Radical Expressions.**

1)  $\sqrt{99} - \sqrt{99}$

6)  $6\sqrt{96} - 5\sqrt{32} + 8\sqrt{24} + 7\sqrt{18}$

2)  $-3\sqrt{3} + 7\sqrt{3} - 5\sqrt{3}$

7)  $\sqrt{5} + \sqrt{5}$

3)  $\sqrt{80} + \sqrt{80}$

8)  $7\sqrt{6} - 4\sqrt{54}$

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

9)  $\sqrt{12} + \sqrt{8} - \sqrt{27}$

5)  $\sqrt{32} + \sqrt{48} + \sqrt{18} + \sqrt{12}$

10)  $7\sqrt{11} + 2\sqrt{44}$



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## Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

1)  $\sqrt{99} - \sqrt{99}$

0

6)  $6\sqrt{96} - 5\sqrt{32} + 8\sqrt{24} + 7\sqrt{18}$

 $40\sqrt{6} + \sqrt{2}$ 

2)  $-3\sqrt{3} + 7\sqrt{3} - 5\sqrt{3}$

 $-\sqrt{3}$ 

7)  $\sqrt{5} + \sqrt{5}$

 $2\sqrt{5}$ 

3)  $\sqrt{80} + \sqrt{80}$

 $8\sqrt{5}$ 

8)  $7\sqrt{6} - 4\sqrt{54}$

 $-5\sqrt{6}$ 

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

 $20\sqrt{7}$ 

9)  $\sqrt{12} + \sqrt{8} - \sqrt{27}$

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

5)  $\sqrt{32} + \sqrt{48} + \sqrt{18} + \sqrt{12}$

 $7\sqrt{2} + 6\sqrt{3}$ 

10)  $7\sqrt{11} + 2\sqrt{44}$

 $11\sqrt{11}$ 