

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

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

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**Adding, Subtracting, and Multiplying Radicals**

**Simplify each expression.**

1)  $6\sqrt{99} + 2\sqrt{99} - 4\sqrt{99}$

6)  $\sqrt{27} - 5\sqrt{27}$

2)  $\sqrt{14} \cdot \sqrt{15}$

7)  $\sqrt{14} \cdot \sqrt{11}$

3)  $2\sqrt{24} - 3\sqrt{216} + 7\sqrt{2}$

8)  $6\sqrt{13} (2 - 5\sqrt{3})$

4)  $8\sqrt{3} + 6\sqrt{3}$

9)  $8\sqrt{11} + 4\sqrt{11}$

5)  $\sqrt{20} - 4\sqrt{20}$

10)  $6\sqrt{117} - 5\sqrt{117} + 4\sqrt{117}$

