

Name : _____

Score : _____

Teacher : _____

Date : _____

Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

1) $\sqrt{6} - \sqrt{24}$

6) $-8\sqrt{27} + \sqrt{45} + 3\sqrt{48} - 2\sqrt{20}$

2) $3\sqrt{176} + 5\sqrt{176} + 2\sqrt{176}$

7) $-\sqrt{18} + \sqrt{18}$

3) $-\sqrt{27} - \sqrt{54} + \sqrt{12}$

8) $-7\sqrt{11} + 7\sqrt{11} + 9\sqrt{11}$

4) $-7\sqrt{32} - 2\sqrt{32}$

9) $-\sqrt{54} - \sqrt{63} - \sqrt{24}$

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

10) $5\sqrt{5} - 7\sqrt{5} + 4\sqrt{20}$



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Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

$$1) \quad \sqrt{6} - \sqrt{24} \\ -\sqrt{6}$$

$$6) \quad -8\sqrt{27} + \sqrt{45} + 3\sqrt{48} - 2\sqrt{20} \\ -12\sqrt{3} - \sqrt{5}$$

$$2) \quad 3\sqrt{176} + 5\sqrt{176} + 2\sqrt{176} \\ 40\sqrt{11}$$

$$7) \quad -\sqrt{18} + \sqrt{18} \\ 0$$

$$3) \quad -\sqrt{27} - \sqrt{54} + \sqrt{12} \\ -\sqrt{3} - 3\sqrt{6}$$

$$8) \quad -7\sqrt{11} + 7\sqrt{11} + 9\sqrt{11} \\ 9\sqrt{11}$$

$$4) \quad -7\sqrt{32} - 2\sqrt{32} \\ -36\sqrt{2}$$

$$9) \quad -\sqrt{54} - \sqrt{63} - \sqrt{24} \\ -5\sqrt{6} - 3\sqrt{7}$$

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

$$10) \quad 5\sqrt{5} - 7\sqrt{5} + 4\sqrt{20} \\ 6\sqrt{5}$$

