

Name : _____

Score : _____

Teacher : _____

Date : _____

Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

1) $-\sqrt{20} - \sqrt{8} + \sqrt{45}$

6) $2\sqrt{176} - 9\sqrt{96} - 3\sqrt{44} + 4\sqrt{54}$

2) $4\sqrt{20} + 7\sqrt{20} + 7\sqrt{20}$

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

3) $\sqrt{44} + \sqrt{44} + \sqrt{44}$

8) $-5\sqrt{7} + \sqrt{7} + 6\sqrt{7}$

4) $8\sqrt{54} - 9\sqrt{63} + 5\sqrt{96} + 3\sqrt{28}$

9) $-\sqrt{32} - \sqrt{32}$

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

10) $-8\sqrt{63} + 9\sqrt{63}$



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Adding and Subtracting Radical Expressions

Simplify the Radical Expressions.

$$1) \quad -\sqrt{20} - \sqrt{8} + \sqrt{45}$$
$$\sqrt{5} - 2\sqrt{2}$$

$$6) \quad 2\sqrt{176} - 9\sqrt{96} - 3\sqrt{44} + 4\sqrt{54}$$
$$2\sqrt{11} - 24\sqrt{6}$$

$$2) \quad 4\sqrt{20} + 7\sqrt{20} + 7\sqrt{20}$$
$$36\sqrt{5}$$

$$7) \quad -\sqrt{6} - \sqrt{24}$$
$$-3\sqrt{6}$$

$$3) \quad \sqrt{44} + \sqrt{44} + \sqrt{44}$$
$$6\sqrt{11}$$

$$8) \quad -5\sqrt{7} + \sqrt{7} + 6\sqrt{7}$$
$$2\sqrt{7}$$

$$4) \quad 8\sqrt{54} - 9\sqrt{63} + 5\sqrt{96} + 3\sqrt{28}$$
$$44\sqrt{6} - 21\sqrt{7}$$

$$9) \quad -\sqrt{32} - \sqrt{32}$$
$$-8\sqrt{2}$$

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

$$10) \quad -8\sqrt{63} + 9\sqrt{63}$$
$$3\sqrt{7}$$

