

Name _____

Date _____

Multiplying Radical Expressions Quiz 2

Simplify all the radical expressions.

1) $-\sqrt{176} (\sqrt{45} - \sqrt{8})$

6) $-\sqrt{27} (-\sqrt{32} + \sqrt{44})$

2) $-\sqrt{27} (-\sqrt{28} + \sqrt{80})$

7) $-\sqrt{28} (\sqrt{176} - \sqrt{18})$

3) $-\sqrt{45} (\sqrt{12} - \sqrt{176})$

8) $\sqrt{80} (\sqrt{28} + \sqrt{27})$

4) $-\sqrt{48} (-\sqrt{18} + \sqrt{44})$

9) $-\sqrt{99} (\sqrt{28} + \sqrt{80})$

5) $-\sqrt{44} (\sqrt{63} - \sqrt{32})$

10) $\sqrt{12} (-\sqrt{176} - \sqrt{18})$

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Multiplying Radical Expressions Quiz 2 Answer Key

Simplify all the radical expressions.

1) $-\sqrt{176} (\sqrt{45} - \sqrt{8})$

$$-12\sqrt{55} + 8\sqrt{22}$$

6) $-\sqrt{27} (-\sqrt{32} + \sqrt{44})$

$$12\sqrt{6} - 6\sqrt{33}$$

2) $-\sqrt{27} (-\sqrt{28} + \sqrt{80})$

$$6\sqrt{21} - 12\sqrt{15}$$

7) $-\sqrt{28} (\sqrt{176} - \sqrt{18})$

$$-8\sqrt{77} + 6\sqrt{14}$$

3) $-\sqrt{45} (\sqrt{12} - \sqrt{176})$

$$-6\sqrt{15} + 12\sqrt{55}$$

8) $\sqrt{80} (\sqrt{28} + \sqrt{27})$

$$12\sqrt{15} + 8\sqrt{35}$$

4) $-\sqrt{48} (-\sqrt{18} + \sqrt{44})$

$$12\sqrt{6} - 8\sqrt{33}$$

9) $-\sqrt{99} (\sqrt{28} + \sqrt{80})$

$$-6\sqrt{77} - 12\sqrt{55}$$

5) $-\sqrt{44} (\sqrt{63} - \sqrt{32})$

$$-6\sqrt{77} + 8\sqrt{22}$$

10) $\sqrt{12} (-\sqrt{176} - \sqrt{18})$

$$-8\sqrt{33} - 6\sqrt{6}$$