

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Radical Expressions Homework 2

Simplify all the radical expressions.

1)  $-\sqrt{27} (\sqrt{176} - \sqrt{8})$

6)  $\sqrt{18} (-\sqrt{44} - \sqrt{80})$

2)  $-\sqrt{12} (-\sqrt{99} - \sqrt{112})$

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

3)  $-\sqrt{176} (-\sqrt{20} + \sqrt{27})$

8)  $-\sqrt{28} (\sqrt{45} + \sqrt{32})$

4)  $\sqrt{32} (\sqrt{44} + \sqrt{63})$

9)  $\sqrt{176} (-\sqrt{20} + \sqrt{27})$

5)  $\sqrt{12} (-\sqrt{32} - \sqrt{63})$

10)  $\sqrt{45} (-\sqrt{44} + \sqrt{48})$

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## Multiplying Radical Expressions Homework 2 Answer Key

Simplify all the radical expressions.

1)  $-\sqrt{27} (\sqrt{176} - \sqrt{8})$

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

6)  $\sqrt{18} (-\sqrt{44} - \sqrt{80})$

$-6\sqrt{22} - 12\sqrt{10}$

2)  $-\sqrt{12} (-\sqrt{99} - \sqrt{112})$

$6\sqrt{33} + 8\sqrt{21}$

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

$-12\sqrt{55} - 8\sqrt{35}$

3)  $-\sqrt{176} (-\sqrt{20} + \sqrt{27})$

$8\sqrt{55} - 12\sqrt{33}$

8)  $-\sqrt{28} (\sqrt{45} + \sqrt{32})$

$-6\sqrt{35} - 8\sqrt{14}$

4)  $\sqrt{32} (\sqrt{44} + \sqrt{63})$

$12\sqrt{14} + 8\sqrt{22}$

9)  $\sqrt{176} (-\sqrt{20} + \sqrt{27})$

$-8\sqrt{55} + 12\sqrt{33}$

5)  $\sqrt{12} (-\sqrt{32} - \sqrt{63})$

$-8\sqrt{6} - 6\sqrt{21}$

10)  $\sqrt{45} (-\sqrt{44} + \sqrt{48})$

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