

Name _____

Date _____

Multiplying Radical Expressions Practice 3

Simplify all the radical expressions.

1) $(\sqrt{5} + \sqrt{7})(\sqrt{5} - \sqrt{7})$

6) $(-\sqrt{2} - \sqrt{7})(-\sqrt{2} + \sqrt{7})$

2) $(-\sqrt{3} + \sqrt{7})(\sqrt{3} - \sqrt{7})$

7) $(-\sqrt{3} + \sqrt{5})(-\sqrt{3} + \sqrt{5})$

3) $(-\sqrt{7} - \sqrt{3})(-\sqrt{7} - \sqrt{3})$

8) $(-\sqrt{3} + \sqrt{7})(\sqrt{3} + \sqrt{7})$

4) $(-\sqrt{5} + \sqrt{3})(\sqrt{5} + \sqrt{3})$

9) $(\sqrt{2} - \sqrt{3})(-\sqrt{2} + \sqrt{3})$

5) $(-\sqrt{7} - \sqrt{5})(\sqrt{7} + \sqrt{5})$

10) $(-\sqrt{2} + \sqrt{3})(-\sqrt{2} - \sqrt{3})$

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Multiplying Radical Expressions Practice 3 Answer Key

Simplify all the radical expressions.

1) $(\sqrt{5} + \sqrt{7})(\sqrt{5} - \sqrt{7})$

-2

6) $(-\sqrt{2} - \sqrt{7})(-\sqrt{2} + \sqrt{7})$

-5

2) $(-\sqrt{3} + \sqrt{7})(\sqrt{3} - \sqrt{7})$

-10 + 2\sqrt{21}

7) $(-\sqrt{3} + \sqrt{5})(-\sqrt{3} + \sqrt{5})$

-8 - 2\sqrt{15}

3) $(-\sqrt{7} - \sqrt{3})(-\sqrt{7} - \sqrt{3})$

10 - 2\sqrt{21}

8) $(-\sqrt{3} + \sqrt{7})(\sqrt{3} + \sqrt{7})$

4

4) $(-\sqrt{5} + \sqrt{3})(\sqrt{5} + \sqrt{3})$

-2

9) $(\sqrt{2} - \sqrt{3})(-\sqrt{2} + \sqrt{3})$

-5 + 2\sqrt{6}

5) $(-\sqrt{7} - \sqrt{5})(\sqrt{7} + \sqrt{5})$

-12 - 2\sqrt{35}

10) $(-\sqrt{2} + \sqrt{3})(-\sqrt{2} - \sqrt{3})$

-1