

Name \_\_\_\_\_

Date \_\_\_\_\_

### Multiplying Radical Expressions Homework 3

Simplify all the radical expressions.

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

6)  $(\sqrt{7} + \sqrt{11})(-\sqrt{7} - \sqrt{11})$

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

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

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

8)  $(\sqrt{5} + \sqrt{2})(-\sqrt{5} - \sqrt{2})$

4)  $(\sqrt{11} - \sqrt{2})(-\sqrt{11} - \sqrt{2})$

9)  $(-\sqrt{11} + \sqrt{2})(-\sqrt{11} - \sqrt{2})$

5)  $(\sqrt{2} - \sqrt{7})(-\sqrt{2} - \sqrt{7})$

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

Name \_\_\_\_\_

Date \_\_\_\_\_

## Multiplying Radical Expressions Homework 3 Answer Key

Simplify all the radical expressions.

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

$10 - 2\sqrt{21}$

6)  $(\sqrt{7} + \sqrt{11})(-\sqrt{7} - \sqrt{11})$

$-18 - 2\sqrt{77}$

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

$-5 + 2\sqrt{6}$

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

$-2$

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

$-8 - 2\sqrt{15}$

8)  $(\sqrt{5} + \sqrt{2})(-\sqrt{5} - \sqrt{2})$

$-7 - 2\sqrt{10}$

4)  $(\sqrt{11} - \sqrt{2})(-\sqrt{11} - \sqrt{2})$

$-9$

9)  $(-\sqrt{11} + \sqrt{2})(-\sqrt{11} - \sqrt{2})$

$9$

5)  $(\sqrt{2} - \sqrt{7})(-\sqrt{2} - \sqrt{7})$

$5$

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

$2$