

## MULTIPLYING RADICAL EXPRESSIONS

### Homework

*Perform the indicated operations. Simplify all answers completely.*

1.  $\sqrt{5} \sqrt{15}$

2.  $\sqrt{14} \sqrt{35}$

3.  $\sqrt{2}(\sqrt{3} - \sqrt{5})$

4.  $\sqrt{3}(\sqrt{27} - \sqrt{3})$

5.  $\sqrt{2}(\sqrt{6} + \sqrt{10})$

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

7.  $\sqrt{5}(3\sqrt{5} - 4\sqrt{3})$

8.  $\sqrt{y}(\sqrt{y} - \sqrt{5})$

9.  $\sqrt{2x}(\sqrt{8x} - \sqrt{32})$

10.  $\sqrt{5}(3 + \sqrt{15})$

11.  $4\sqrt{x}(2\sqrt{x} + 3\sqrt{7})$

12.  $5\sqrt{3}(\sqrt{3} - 2) + \sqrt{3}(7 - \sqrt{3})$

13.  $(\sqrt{10} - 5)(\sqrt{10} + 2)$

14.  $(2 + \sqrt{x})(8 + \sqrt{x})$