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