

Extra Practice

Lesson 11-2

(pages 594–598)

Simplify each expression.

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|---|--|---|
| 4. $14\sqrt{7} - \sqrt{2}$ | 10. $-6\sqrt{7} + 24\sqrt{5}$ | 15. $69\sqrt{2} - 10\sqrt{3}$ |
| 1. $3\sqrt{11} + 6\sqrt{11} - 2\sqrt{11}$ | $7\sqrt{11}$ | 2. $6\sqrt{13} + 7\sqrt{13}$ |
| 4. $9\sqrt{7} - 4\sqrt{2} + 3\sqrt{2} + 5\sqrt{7}$ | $13\sqrt{13}$ | 5. $3\sqrt{5} - 5\sqrt{3}$ in simplest form |
| 7. $2\sqrt{27} - 4\sqrt{12}$ | $-2\sqrt{3}$ | 8. $8\sqrt{32} + 4\sqrt{50}$ |
| 10. $2\sqrt{63} - 6\sqrt{28} + 8\sqrt{45}$ | $52\sqrt{2}$ | 11. $14\sqrt{3t} + 8\sqrt{3t}$ |
| 13. $5\sqrt{7} - 3\sqrt{28}$ | $-\sqrt{7}$ | 14. $7\sqrt{8} - \sqrt{18}$ |
| 16. $4\sqrt{6} + 3\sqrt{2} - 2\sqrt{5}$ | $11\sqrt{2}$ | 17. $-3\sqrt{20} + 2\sqrt{45} - \sqrt{7}$ |
| 19. $10\sqrt{\frac{1}{5}} - \sqrt{45} - 12\sqrt{\frac{5}{9}}$ | $-5\sqrt{5}$ | 20. $\sqrt{15} - \sqrt{\frac{3}{5}}$ |
| 16. in simplest form | $\frac{4\sqrt{15}}{5}$ | 21. $3\sqrt{\frac{1}{3}} - 9\sqrt{\frac{1}{12}} + \sqrt{243}$ |
| Find each product. | $27. 4\sqrt{21} - 12\sqrt{35} + \sqrt{6} - 3\sqrt{10}$ | $27 + 10\sqrt{2}$ |
| 22. $\sqrt{3}(\sqrt{5} + 2)$ | $\sqrt{15} + 2\sqrt{3}$ | 24. $(\sqrt{2} + 5)^2$ |
| 25. $(3 - \sqrt{7})(3 + \sqrt{7})$ | 2 | 27. $(4\sqrt{7} + \sqrt{2})(\sqrt{3} - 3\sqrt{5})$ |
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