

Lesson 10-1

(pages 528–534)

Simplify.

1. $\sqrt{50}$ $5\sqrt{2}$
2. $\sqrt{200}$ $10\sqrt{2}$
3. $\sqrt{162}$ $9\sqrt{2}$
4. $\sqrt{700}$ $10\sqrt{7}$
5. $\frac{\sqrt{3}}{\sqrt{5}}$ $\frac{\sqrt{15}}{5}$
6. $\frac{\sqrt{72}}{\sqrt{6}}$ $2\sqrt{3}$
7. $\sqrt{\frac{8}{7}}$ $\frac{2\sqrt{14}}{7}$
8. $\sqrt{\frac{7}{32}}$ $\frac{\sqrt{14}}{8}$
9. $\sqrt{\frac{5}{8}} \cdot \sqrt{\frac{2}{6}}$ $\frac{\sqrt{30}}{12}$
10. $\sqrt{\frac{2}{3}} \cdot \sqrt{\frac{3}{2}}$ 1
11. $\sqrt{\frac{2x}{30}}$ $\frac{\sqrt{15}}{\sqrt{5}}$
12. $\sqrt{\frac{50}{z^2}}$ $\frac{5\sqrt{2}}{|z|}$
13. $\sqrt{10} \cdot \sqrt{20}$ $10\sqrt{2}$
14. $\sqrt{7} \cdot \sqrt{3}$ $\sqrt{21}$
15. $6\sqrt{2} \cdot \sqrt{3}$ $6\sqrt{6}$
16. $5\sqrt{6} \cdot 2\sqrt{3}$ $30\sqrt{2}$
17. $\sqrt{4x^4y^3}$ $2x^2|y|\sqrt{y}$
18. $\sqrt{200m^2y^3}$ $10|m|\sqrt{2y}$
19. $\sqrt{12ts^3}$ $2|s|\sqrt{3st}$
20. $\sqrt{175a^4b^6}$ $5a^2|b^3|\sqrt{7}$
21. $\sqrt{\frac{54}{x^2}}$ $\frac{3\sqrt{6}}{|x|}$
22. $\sqrt{99x^3y^7}$ $3|xy^3|\sqrt{11xy}$
23. $\frac{\sqrt{32c^5}}{9d^2}$ $\frac{4c^2\sqrt{2c}}{3|d|}$
24. $\sqrt{\frac{27p^4}{3p^2}}$ $3|p|$
25. $\frac{1}{3+\sqrt{5}}$ $\frac{3-\sqrt{5}}{4}$
26. $\frac{2}{\sqrt{3}-5}$ $\frac{\sqrt{3}+5}{-11}$
27. $\frac{\sqrt{3}}{\sqrt{3}-5}$ $\frac{3+5\sqrt{3}}{-22}$
28. $\frac{\sqrt{6}}{7-2\sqrt{3}}$ $\frac{7\sqrt{6}+6\sqrt{2}}{37}$

Lesson 10-2

(pages 536–540)

Simplify. 1. $7\sqrt{11}$ 4. $9\sqrt{7} - \sqrt{2}$ 5. in simplest form 6. $8\sqrt{2} - 3\sqrt{5}$

1. $3\sqrt{11} + 6\sqrt{11} - 2\sqrt{11}$
2. $6\sqrt{13} + 7\sqrt{13}$ $13\sqrt{13}$
3. $2\sqrt{12} + 5\sqrt{3}$ $9\sqrt{3}$
4. $9\sqrt{7} - 4\sqrt{2} + 3\sqrt{2}$
5. $3\sqrt{5} - 5\sqrt{3}$
6. $4\sqrt{8} - 3\sqrt{5}$
7. $2\sqrt{27} - 4\sqrt{12}$ $-2\sqrt{3}$
8. $8\sqrt{32} + 4\sqrt{50}$ $52\sqrt{2}$
9. $\sqrt{45} + 6\sqrt{20}$ $15\sqrt{5}$
10. $2\sqrt{63} - 6\sqrt{28} + 8\sqrt{45}$
11. $14\sqrt{3t} + 8$ $22\sqrt{3t}$
12. $7\sqrt{6x} - 12\sqrt{6x}$ $-5\sqrt{6x}$
13. $5\sqrt{7} - 3\sqrt{28}$ $-\sqrt{7}$
14. $7\sqrt{8} - \sqrt{18}$ $11\sqrt{2}$
15. $7\sqrt{98} + 5\sqrt{32} - 2\sqrt{75}$
16. $4\sqrt{6} + 3\sqrt{2} - 2\sqrt{5}$
17. $-3\sqrt{20} + 2\sqrt{45} - \sqrt{7}$
18. $4\sqrt{75} + 6\sqrt{27}$ $38\sqrt{3}$
19. $10\sqrt{\frac{1}{5}} - \sqrt{45} - 12\sqrt{\frac{5}{9}}$
20. $\sqrt{15} - \sqrt{\frac{3}{5}}$ $\frac{4\sqrt{15}}{5}$
21. $3\sqrt{\frac{1}{3}} - 9\sqrt{\frac{1}{12}} + \sqrt{243}$
10. $-6\sqrt{7} + 24\sqrt{5}$ 15. $69\sqrt{2} - 10\sqrt{3}$ 16. in simplest form 17. $-\sqrt{7}$ 19. $-5\sqrt{5}$ 21. $\frac{17\sqrt{3}}{2}$

Find each product.

22. $\sqrt{3}(\sqrt{5} + 2)$ $\sqrt{15} + 2\sqrt{3}$
23. $\sqrt{2}(\sqrt{2} + 3\sqrt{5})$ $2 + 3\sqrt{10}$
24. $(\sqrt{2} + 5)^2$ $27 + 10\sqrt{2}$
25. $(3 - \sqrt{7})(3 + \sqrt{7})$ 2
26. $(\sqrt{2} + \sqrt{3})(\sqrt{3} + \sqrt{2})$ $2\sqrt{6} + 5$
27. $(4\sqrt{7} + \sqrt{2})(\sqrt{3} - 3\sqrt{5})$ $4\sqrt{21} - 12\sqrt{35} + \sqrt{6} - 3\sqrt{10}$

Lesson 10-3

(pages 541–546)

Solve each equation. Check your solution. 17. no solution

1. $\sqrt{5x} = 5$ 5
2. $4\sqrt{7} = \sqrt{-m}$ -112
3. $\sqrt{t} - 5 = 0$ 25
4. $\sqrt{3b} + 2 = 0$ no solution
5. $\sqrt{x} - 3 = 6$ 81
6. $5 - \sqrt{3x} = 1$ $\frac{16}{3}$
7. $2 + 3\sqrt{y} = 13$ $\frac{121}{9}$
8. $\sqrt{3x} = 6$ 12
9. $\sqrt{2} - 2 = 0$ 4

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JR Anderson



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web 8 2 1 1 hexagonal nut the upper corners of this nut are rounded off or chamfered the chamfering is generally conical the angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is formed on the top surface of the nut

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web a hex key also hex wrench allen key and allen wrench or inbus is a simple driver for bolts or screws that have heads with internal hexagonal recesses hex keys are formed from a single piece of hard hexagonal steel rod having blunt ends that fit snugly into similarly shaped screw sockets the rods are bent to 90° forming two arms of unequal

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web head designs that overlap both bolts and screws are the allen or torx heads hexagonal or splined sockets these modern designs span a large range of sizes and can carry a considerable torque rusty hexagonal bolt heads the american institute of steel construction 13th edition steel design manual section 16 1 chapter j 3 specifies the

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web the formula used to calculate the bolt area is as follows bolt area $ba = 0.7854 d^2 n$ in this formula d represents the bolt diameter in inches and n represents the number of threads per inch the bolt area is calculated by subtracting 0.9734 divided by the threads per inch from the bolt diameter and then squaring the

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web proximate joint and bolt stiffness is outlined in paragraph 5 0 the slope of the force angle of turn relationship can be represented by the following equation where k_b bolt spring rate lb/in k_c joint spring rate lb/in

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