

Chapter 9 Review Exercise Answers

Fill in each blank with a word that correctly completes the sentence.

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|---------------------------------|--|--|---|
| 1. radicand | 2. radicand | 3. conjugate | 4. rationalizing |
| 5. $5\sqrt{3}$ | 6. $2\sqrt{11}$ | 7. $10\sqrt{5}$ | 8. $15\sqrt{2}$ |
| 9. $-12\sqrt{2}$ | 10. $-3\sqrt{6}$ | 11. $\sqrt{30}$ | 12. 6 |
| 13. $2\sqrt{10}$ | 14. 7 | 15. $6\sqrt{2}$ | 16. $10\sqrt{3}$ |
| 17. 4 | 18. $\frac{5}{6}$ | 19. $\frac{7}{11}$ | 20. $\frac{\sqrt{15}}{2}$ |
| 21. $\frac{5\sqrt{2}}{9}$ | 22. $\frac{3\sqrt{3}}{10}$ | 23. $10\sqrt{7}$ | 24. $-6\sqrt{5}$ |
| 25. $2\sqrt{6}$ | 26. $-11\sqrt{3}$ | 27. $-\sqrt{10}$ | 28. $-8\sqrt{2}$ |
| 29. $11\sqrt{6}$ | 30. 0 | 31. $3 + 2\sqrt{5}$ | 32. $\frac{2}{3} - \frac{3\sqrt{2}}{2}$ |
| 33. $-4 - \sqrt{11}$ | 34. $\frac{3}{2} - \frac{\sqrt{2}}{2}$ | 35. $18\sqrt{5} + 24\sqrt{3}$ | |
| 36. $2\sqrt{5} - 2\sqrt{15}$ | 37. $18 - 5\sqrt{6}$ | 38. $3 - \sqrt{6} + 3\sqrt{2} - 2\sqrt{3}$ | |
| 39. $78 + 2\sqrt{2}$ | 40. $7\sqrt{3} - 9\sqrt{2}$ | 41. $-4 + 2\sqrt{10}$ | |
| 42. $27 + 10\sqrt{2}$ | 43. $9 + 6\sqrt{2}$ | 44. 9 | |
| 45. $\frac{\sqrt{30}}{3}$ | 46. $\frac{3\sqrt{6}}{2}$ | 47. $\frac{5\sqrt{2}}{2}$ | |
| 48. $2\sqrt{10}$ | 49. $\frac{6\sqrt{10}}{5}$ | 50. $\sqrt{10}$ | |
| 51. $\frac{30 - 6\sqrt{2}}{23}$ | 52. $3\sqrt{5} + 3\sqrt{2}$ | 53. $36 - 24\sqrt{2}$ | |
| 54. $5 - 5\sqrt{2}$ | 55. $4\sqrt{3} + 5\sqrt{2}$ | 56. $-\sqrt{3} + 2\sqrt{2}$ | |