

Radicals

Simplify.

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|------------------------|------------------------|------------------------|------------------------|
| 1. $\sqrt{64}$ _____ | 2. $-\sqrt{144}$ _____ | 3. $\sqrt{625}$ _____ | 4. $-\sqrt{256}$ _____ |
| 5. $-\sqrt{100}$ _____ | 6. $\sqrt{49}$ _____ | 7. $-\sqrt{1}$ _____ | 8. $\sqrt{1}$ _____ |
| 9. $\sqrt{48}$ _____ | 10. $\sqrt{10}$ _____ | 11. $\sqrt{36}$ _____ | 12. $\sqrt{144}$ _____ |
| 13. $\sqrt{120}$ _____ | 14. $\sqrt{169}$ _____ | 15. $\sqrt{400}$ _____ | 16. $\sqrt{200}$ _____ |

Simplify.

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|-----------------------------------|---------------------------------|---------------------------|
| 25. $\sqrt{a^2b^2c^2}$ _____ | 26. $\sqrt{(x-2)^2}$ _____ | 27. $\sqrt{(9m)^2}$ _____ |
| 28. $\sqrt{(x+1)^2}$ _____ | 29. $\sqrt{(-5c)^2}$ _____ | 30. $\sqrt{49t^2}$ _____ |
| 31. $\sqrt{y^2 - 16y + 64}$ _____ | 32. $\sqrt{x^2 + 6x + 9}$ _____ | |

simplify. Assume that all variables are nonnegative.

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|-----------------------------|----------------------------------|------------------------------|
| 33. $\sqrt{27}$ _____ | 34. $\sqrt{128}$ _____ | 35. $\sqrt{80}$ _____ |
| 36. $\sqrt{16t}$ _____ | 37. $\sqrt{64y}$ _____ | 38. $\sqrt{15y^2}$ _____ |
| 39. $\sqrt{12a^2}$ _____ | 40. $\sqrt{400y^2}$ _____ | 41. $\sqrt{31y^2}$ _____ |
| 42. $\sqrt{250b}$ _____ | 43. $\sqrt{180}$ _____ | 44. $\sqrt{18a^2b^2}$ _____ |
| 45. $\sqrt{165}$ _____ | 46. $\sqrt{1000}$ _____ | 47. $\sqrt{75x}$ _____ |
| 48. $\sqrt{44m^2}$ _____ | 49. $\sqrt{50a}$ _____ | 50. $\sqrt{60c^2}$ _____ |
| 51. $\sqrt{200x}$ _____ | 52. $\sqrt{90x^2}$ _____ | 53. $\sqrt{y^{24}}$ _____ |
| 54. $\sqrt{32m^{13}}$ _____ | 55. $\sqrt{108(x+1)^{12}}$ _____ | 56. $\sqrt{125x^5y^2}$ _____ |
| 57. $\sqrt{y^{11}}$ _____ | 58. $\sqrt{(a+b)^5}$ _____ | 59. $\sqrt{64m^3}$ _____ |
| 60. $\sqrt{27a^3b^3}$ _____ | 61. $\sqrt{12(x+4)^9}$ _____ | 62. $\sqrt{x^7y^{12}}$ _____ |