

Simplify. All variables represent nonnegative numbers.

5. $\sqrt{180}$ $6\sqrt{5}$

6. $\sqrt{40}$ $2\sqrt{10}$

7. $\sqrt{648}$ $18\sqrt{2}$

8. $\sqrt{m^5n^3}$ $m^2n\sqrt{mn}$

9. $\sqrt{32x^4y^3}$ $4x^2y\sqrt{2y}$

10. $\sqrt{200a^2b}$ $10a\sqrt{2b}$

11. $\sqrt{\frac{17}{25}}$ $\frac{\sqrt{17}}{5}$

12. $\sqrt{\frac{7}{16}}$ $\frac{\sqrt{7}}{4}$

13. $\sqrt{\frac{6}{49}}$ $\frac{\sqrt{6}}{7}$

14. $\sqrt{\frac{b}{c^2}}$ $\frac{\sqrt{b}}{c}$

15. $\sqrt{\frac{4x^2}{36x}}$ $\frac{\sqrt{x}}{3}$

16. $\sqrt{\frac{7a^4}{9a^3}}$ $\frac{\sqrt{7a}}{3}$

17. $\sqrt{\frac{108}{49}}$ $\frac{6\sqrt{3}}{7}$

18. $\sqrt{\frac{204}{25}}$ $\frac{2\sqrt{51}}{5}$

19. $\sqrt{\frac{512}{81}}$ $\frac{16\sqrt{2}}{9}$