

Answer Key

Practice A

1. $4^{5/3}$
2. $6^{1/4}$
3. $5^{2/3} \cdot 3^{2/3}$
4. $\frac{1}{13^{5/4}}$
5. $10^{1/6}$
6. $\frac{2^{1/8}}{3^{1/8}}$
7. $\sqrt{21}$
8. $\sqrt[6]{5}$
9. 2
10. $\frac{1}{5}$
11. $\sqrt[10]{3}$
12. $3\sqrt{2}$
13. $x^{3/4}$
14. $x^{8/3}$
15. $x^{1/10}$
16. $\sqrt{3}x^{1/2}$
17. $3x^{1/3}$
18. $\frac{1}{x^{7/2}}$
19. x
20. $\frac{1}{x^2}$
21. $\frac{10}{x^{1/2}}$
22. $6\sqrt{3}$
23. $2\sqrt{7}$
24. $15\sqrt[5]{22}$
25. $-5\sqrt{x}$
26. $-3\sqrt[3]{x}$
27. $2\sqrt[4]{x}$
28. $7x\sqrt{x}$
29. $\frac{x}{y\sqrt{y}} = \frac{x\sqrt{y}}{y^2}$
30. $yz^2\sqrt{x^3y}$
31. $3x\sqrt[3]{yz}$
32. $6x^2\sqrt{x}$
33. $\frac{y^2\sqrt{xz}}{x^2}$
34. $2\sqrt{2}$ in.