

I. Vocabulary. Match each definition with its corresponding term.

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|---|--------------|
| 1. The number "b" in the expression $\sqrt[n]{b}$ | A. cube root |
| 2. The number "a" when $a^3 = b$ | B. index |
| 3. The number "n" in the expression $\sqrt[n]{b}$ | C. nth root |
| 4. The number "a" when $a^n = b$ | D. radicand |

II. Evaluate each expression.

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|---|------------------------------------|-----------------------------------|
| 5. $\sqrt[3]{216} = 6$
Because $6^3 = 216$ | 6. $\sqrt[3]{64} =$
Because | 7. $\sqrt[3]{-343} =$
Because |
| 8. $\sqrt[5]{32} =$
Because | 9. $\sqrt[4]{625} =$
Because | 10. $\sqrt[7]{-128} =$
Because |
| 11. $\sqrt[6]{729} =$
Because | 12. $\sqrt[5]{-1024} =$
Because | 13. $\sqrt[5]{-243} =$
Because |