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Module 17 Simplifying Radical Expressions
Lesson 1 Simplifying Radicals

guided notes

Lesson Objectives

- Simplify square root expressions.
- Simplify cube root expressions.

a is a square root of b if _____.

$\sqrt{\ }$ means the _____ square root.

Product Property for Square Roots:

For nonnegative numbers a and b, _____.

For a square root expression to be simplified, the _____

must contain no perfect _____ factors other than

_____.

The square root of a _____ number is not a real number.

1. Simplify: $\sqrt{63}$ _____
2. Simplify: $\sqrt{80}$ _____
3. Simplify: $\sqrt{-8}$ _____

a is a cube root of b if _____.

For $\sqrt[n]{a}$, n is the _____ and a is the _____.

The cube root of a number has the same sign as _____.

Product Property for Cube Roots:

For any numbers a and b, _____.

For a cube root expression to be simplified, the _____

must contain no perfect _____ factors other than

_____.

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4 Simplify: $\sqrt[3]{128}$ _____

5 Simplify: $\sqrt[3]{-500}$ _____

$\sqrt{x^2} =$ _____ $\sqrt[3]{x^3} =$ _____

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