

guided notes

NAME _____

DATE _____

Module 17 Simplifying Radical Expressions

Lesson 4 Dividing Radicals

Lesson Objectives

- Divide rational expressions containing radicals.
- Simplify radical expressions using the conjugate.

The Quotient Property of Square Roots states that for any numbers $a \geq 0$ and $b > 0$, _____.

1 Simplify: $\sqrt{\frac{36}{z^2}}$ _____

2 Simplify: $\frac{\sqrt{20}}{\sqrt{5}}$ _____

A radical expression is in simplest form when there are:

1. No square factors other than one under the _____.
2. No _____ under the radical sign.
3. No radicals in the _____.

3 Simplify: $\frac{1}{\sqrt{12}}$ _____

4 Simplify: $\sqrt{\frac{d^2}{6}}$ _____

$\sqrt{7} + \sqrt{2}$ and $\sqrt{7} - \sqrt{2}$ are _____.

5 Simplify: $\frac{1}{1 + \sqrt{3}}$ _____

