

Section 7.5: Rationalizing Denominators and Numerators of Radical Expressions**Division Property of Radicals**

Let a and b represent real numbers such that $\sqrt[n]{a}$ and $\sqrt[n]{b}$ are both real. Then,

$$\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}} \text{ where } b \neq 0. \text{ Division property of radicals}$$

To divide radicals you must have the same index.

Example 1: Simplify.