

Dividing Radicals Rationalizing the Denominator

When you have a single radical in the denominator, you multiply the expression by 1 in the form of that radical. That works because we know that $\sqrt[n]{x^n} = x$. That gets rid of the radical.

Example Rationalize the denominator $\frac{2}{\sqrt{3}}$

To get rid of the radical, I will multiply that expression by 1 in the form of $\frac{\sqrt{3}}{\sqrt{3}}$.

$$\frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{\sqrt{9}} = \frac{2\sqrt{3}}{3}$$