## **Rationalizing the Denominator**With a Single Radical in the Denominator



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1. Multiply by ONE in the fractional form using a single radical so the index matches the exponent.

**Example:** 

Simplify 
$$\frac{2}{\sqrt{3}}$$
.
$$\frac{2}{\sqrt{3}} \Rightarrow \frac{2}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{\left(\sqrt{3}\right)^2},$$

$$= \frac{2\sqrt{3}}{3}.$$

Simplify the following.

1. 
$$\frac{4}{\sqrt{5}}$$

2. 
$$\frac{7}{\sqrt{2}}$$

3. 
$$\frac{6}{2\sqrt{3}}$$

4. 
$$\frac{2}{\sqrt{6}}$$

5. 
$$\frac{1}{3\sqrt{7}}$$

6. 
$$\frac{5}{\sqrt{10}}$$

7. 
$$\frac{8}{3\sqrt{11}}$$

8. 
$$\frac{3}{\sqrt{12}}$$

9. 
$$\frac{3}{2\sqrt{18}}$$