

Rationalizing the denominator: Square Roots

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Simplify.

1) $\frac{5\sqrt{9}}{\sqrt{16}}$

2) $\frac{2\sqrt{3}}{\sqrt{16}}$

3) $\frac{5\sqrt{2}}{\sqrt{8}}$

4) $\frac{4\sqrt{6}}{2\sqrt{27}}$

5) $\frac{3\sqrt{15}}{2\sqrt{80}}$

6) $\frac{2\sqrt{4}}{2\sqrt{16}}$

7) $\frac{2\sqrt{5}}{\sqrt{16}}$

8) $\frac{5\sqrt{2}}{\sqrt{32}}$

9) $\frac{5\sqrt{2}}{4\sqrt{3}}$

10) $\frac{3\sqrt{20}}{3\sqrt{12}}$

$$11) \frac{5\sqrt{5}}{3\sqrt{2}}$$

$$12) \frac{5}{5\sqrt{3}}$$

$$13) -\frac{5}{\sqrt{2}}$$

$$14) \frac{5\sqrt{4}}{\sqrt{3}}$$

$$15) \frac{5\sqrt{2}}{\sqrt{5}}$$

$$16) \frac{\sqrt{5}}{\sqrt{2}}$$

$$17) \frac{\sqrt{3m^2}}{3\sqrt{2m^3}}$$

$$18) \frac{2\sqrt{3n}}{2\sqrt{5n^3}}$$

$$19) \frac{3\sqrt{8p^4}}{\sqrt{10p}}$$

$$20) \frac{5\sqrt{3k^2}}{4\sqrt{5k^2}}$$