

Rationalizing the Denominator

Simplify.

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

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

3) $\frac{3\sqrt{15}}{5\sqrt{10}}$

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

$$5) -\frac{5}{\sqrt{3} + \sqrt{2}}$$

$$6) \frac{3}{\sqrt{2} - 4}$$

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

$$8) \frac{3}{4 + 5\sqrt{2}}$$