

# Simplifying Radical Fractions with Coefficients by Utilizing the Conjugate Practice Problems

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**Simplify.**

1)  $\frac{3}{5-3\sqrt{5}}$

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

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

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

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

6)  $\frac{3\sqrt{3}}{5\sqrt{3}-4}$

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

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

9)  $\frac{3\sqrt{2}}{3+2\sqrt{2}}$

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

## Answers to

$$1) \frac{15 + 9\sqrt{5}}{20}$$

$$5) \frac{1 + 2\sqrt{3}}{11}$$

$$9) 9\sqrt{2} - 12$$

$$2) \frac{10 + 6\sqrt{2}}{7}$$

$$6) \frac{45 + 12\sqrt{3}}{59}$$

$$10) \frac{10\sqrt{3} - 6\sqrt{6}}{7}$$

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

$$7) 3\sqrt{5} + 2\sqrt{15}$$

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

$$8) \frac{10\sqrt{3} - 12}{13}$$