

Simplifying Radical Expressions Involving Fractions**Simplify.**

1)
$$\frac{5\sqrt{3} - 3\sqrt{2}}{3\sqrt{2} - 2\sqrt{3}}$$

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

3)
$$\frac{2 + \sqrt{5}}{6 - \sqrt{3}}$$

4)
$$\frac{\sqrt{31} a^5 b^3}{\sqrt{2} a b^2}$$

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

6)
$$\frac{8\sqrt{3}}{\sqrt{k}}$$

7)
$$\frac{2\sqrt{5}r}{\sqrt{m^3}}$$

8)
$$\frac{\sqrt{7} - \sqrt{3}}{\sqrt{3} - \sqrt{7}}$$

9)
$$\frac{\sqrt{a}}{\sqrt{a} + \sqrt{b}}$$

10)
$$\frac{6\sqrt{45}x^3}{3\sqrt{5}x}$$



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for more
PRACTICE

1)
$$\frac{5\sqrt{3} - 3\sqrt{2}}{3\sqrt{2} - 2\sqrt{3}}$$

$$\frac{3\sqrt{6} + 4}{2}$$

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

$$\frac{\sqrt{35} - \sqrt{14} + 5\sqrt{10}}{3}$$

3)
$$\frac{2 + \sqrt{5}}{6 - \sqrt{3}}$$

$$\frac{12 + 2\sqrt{3} + 6\sqrt{5} + \sqrt{15}}{33}$$

4)
$$\frac{\sqrt{31} a^5 b^3}{\sqrt{2} a b^2}$$

$$4 a^2 \sqrt{b}$$

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

$$\frac{3 - \sqrt{5} + 3\sqrt{2} - \sqrt{10}}{4}$$

6)
$$\frac{8\sqrt{3}}{\sqrt{k}}$$

$$\frac{8\sqrt{3}k}{k}$$

7)
$$\frac{2\sqrt{5}r}{\sqrt{m^3}}$$

$$\frac{2\sqrt{5}mr}{m^2}$$

8)
$$\frac{\sqrt{7} - \sqrt{3}}{\sqrt{3} - \sqrt{7}}$$

$$-1$$

9)
$$\frac{\sqrt{a}}{\sqrt{a} + \sqrt{b}}$$

$$\frac{a - \sqrt{ab}}{a - b}$$

10)
$$\frac{6\sqrt{45}x^3}{3\sqrt{5}x}$$

$$6x$$