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## Chapter 10: Radical Expressions

### Simplifying Radical Expressions Involving Fractions

Simplify.

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

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

2)  $\frac{\sqrt{8}}{\sqrt{100}} =$

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

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

14)  $\frac{5}{-3-3\sqrt{3}} =$

4)  $\frac{4}{\sqrt{5}} =$

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

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

16)  $\frac{\sqrt{7}-\sqrt{3}}{\sqrt{3}-\sqrt{7}} =$

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

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

7)  $\frac{6\sqrt{14x^2}}{2\sqrt{18x}} =$

18)  $\frac{3\sqrt{2}-\sqrt{7}}{4\sqrt{2}+\sqrt{5}} =$

8)  $\frac{\sqrt{7x^2y^2}}{\sqrt{5x^3v^2}} =$

19)  $\frac{\sqrt{5}+2\sqrt{2}}{4-\sqrt{5}} =$

9)  $\frac{1}{1+\sqrt{2}} =$

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

10)  $\frac{1-5\sqrt{a}}{\sqrt{11a}} =$

21)  $\frac{\sqrt{8a^5b^3}}{\sqrt{2ab^2}} =$

11)  $\frac{\sqrt{a}}{\sqrt{a}+\sqrt{b}} =$

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