

**Intro to Rational Expressions****Find the excluded values for each rational expression.**

1.  $\frac{x+7}{x-4}$

4.  $\frac{(x+4)(x-7)}{x(x+4)}$

2.  $\frac{3x-5}{2x+7}$

5.  $\frac{x+5}{x^2+7x+6}$

3.  $\frac{(x-3)(x+6)}{(x+1)(x-8)}$

6.  $\frac{x^2-x+6}{x^2-4}$

**Find the excluded values and simplify the rational expression.**

7.  $\frac{(x+5)}{(x-3)(x+5)}$

11.  $\frac{x^2+3x+2}{x^2+5x+6}$

8.  $\frac{3x(x-1)(x+7)}{12(x+7)(x+1)}$

12.  $\frac{x^2-9}{x^2+5x-24}$

9.  $\frac{45x^5}{27x^8}$

13.  $\frac{x^3+27}{2x^2+x-15}$

10.  $\frac{x^2-5x}{3x-15}$

14.  $\frac{6x^2+x-2}{2x^2-13x+6}$