

**Worksheet #1: Rational Expression Simplifying**

Simplify (*remember to factor when necessary*) and State any non-permissible.

1.  $\frac{2x+6}{4x-12}$

2.  $\frac{x^2+9x+20}{2x+8}$

3.  $\frac{6x+24}{x^2+7x+12}$

4.  $\frac{3x+18}{x^2+6x}$

5.  $\frac{3x-12}{3x^2-12x}$

6.  $\frac{x^2-5x+6}{x^2+2x-15}$

7.  $\frac{4x+4}{x^2+4x+3}$

8.  $\frac{x^2-x-12}{x^2-2x-8}$

9.  $\frac{x^2-5x+4}{x^2-4x}$