

Name:

**Proficiency Check – Section 3.1 – Simplifying with Rationals**

Simplify, identify the Domain Restrictions

1. $\frac{x^2 - 25}{x^2 + 5x - 50}$	2. $\frac{x^2 + 5x - 6}{x^2 + 6x}$
3. $\frac{2x^2 - 4x - 70}{4x - 28}$	4. $\frac{6x^2 + 18x + 12}{3x + 3}$

5.

$$\frac{x^2 - x - 2}{x^2 + 5x - 14}$$

6.

$$\frac{x^2 + 9x + 18}{x^2 - 3x - 18}$$

7.

$$\frac{2x^2 - 11x - 6}{x^2 - 5x - 6}$$

8.

$$\frac{3x^2 - 8x - 3}{3x^2 - 15x + 18}$$