

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 6.1**

Simplifying and applying operations to rational expressions, identifying any non-permissible values.

**Rational Expressions**

- Non-permissible Values
- Fully Simplified

**Example** Simplify each rational expressions and state the non-permissible values.

a. 
$$\frac{15x^2yz^3}{20xyz}$$

b. 
$$\frac{1-t}{t^2-1}$$

c. 
$$\frac{3x^2 - 8x}{2x}$$

d. 
$$\frac{16x^2 - 9y^2}{8x - 6y}$$

e. 
$$\frac{3x - 6}{2x^2 + x - 10}$$

f. 
$$\frac{16 - x^2}{2x^2 - 11x + 12}$$