

Name: \_\_\_\_\_  
Algebra I

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

Directions: Simplify.

1.  $\frac{5x}{15x^2}$

2.  $\frac{18y^2z^2}{6y^3z}$

3.  $\frac{18x^2}{27x^4}$

4.  $\frac{5y^4}{25y^2}$

5.  $\frac{-24a^2b}{12ab}$

6.  $\frac{12abc}{-4a^2b}$

7.  $\frac{x+1}{x^2-1}$

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

9.  $\frac{16}{4x+12}$

10.  $\frac{5x+10}{10x+40}$

11.  $\frac{2x+4}{4x+8}$

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

$$13. \quad \frac{4x^2}{2x+8}$$

$$14. \quad \frac{x^2+5x+6}{x^2-9}$$

$$15. \quad \frac{x^2+9x+14}{x^2+8x+7}$$

$$16. \quad \frac{2x^2+5x+3}{x^2+10x+9}$$

$$17. \quad \frac{4x^2-9x-9}{x^2-9}$$