

**Skills Worksheet #3**  
*Fractions with Variables*

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

Reduce the following expressions to one term

1.  $(x^2) + \left(\frac{1}{2}\right)$

2.  $\left(\frac{1}{4x}\right) + \left(\frac{3}{4x^3}\right)$

2.  $\left(\frac{x+2}{3}\right)\left(\frac{5}{x}\right)$

3.  $\left(\frac{x^2+9}{3}\right)\left(\frac{5}{x^2+9}\right)$

4.  $\left(\frac{5x}{6-x}\right) - \left(\frac{1}{6+x}\right)$

5.  $-\left(\frac{1}{x^2-25}\right) + \left(\frac{3(x+5)}{10}\right)$

6.  $\frac{\left(\frac{x+y+xy}{3}\right)}{\left(\frac{x+y}{2y}\right)}$

6.  $\frac{\left(\frac{x^2y^3}{z}\right)}{\left(\frac{x^2y^2}{5+z}\right)}$