

**New Jersey City University**  
**Intermediate Algebra**  
**Peer Led Team Learning Workshop 7A**  
**Rational Expressions I**

Perform each of the following operations and simplify your result.

Section 6.1

1.  $\frac{x^2 + 2x - 15}{2x^2} \cdot \frac{8x}{x^2 - 9}$

Section 6.1

2.  $\frac{1}{x^2 + 3x} \div \frac{x}{4x + 12}$

Section 6.2

3.  $\frac{3}{x+1} + \frac{2}{x}$

Section 6.2

4.  $\frac{4}{x^2 - 7x + 10} - \frac{5}{x - 2}$