Solving Rational Inequalities

- -Combine everything into one fraction (common denominator).
- -Find the zeros of the numerator and the denominator.
- -Use these zeros as your cutpoints.
- -Determine if the rational expression is positive or negative for each interval determined by the cutpoints.
- -Carefully determine if each cutpoint is or is not a solution.

Example:

Solve the following inequality

$$\frac{x+1}{x-2} \le 0$$

Example: Solve the following inequality

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

Example: Solve the following inequality

$$\frac{1}{x} < 4$$