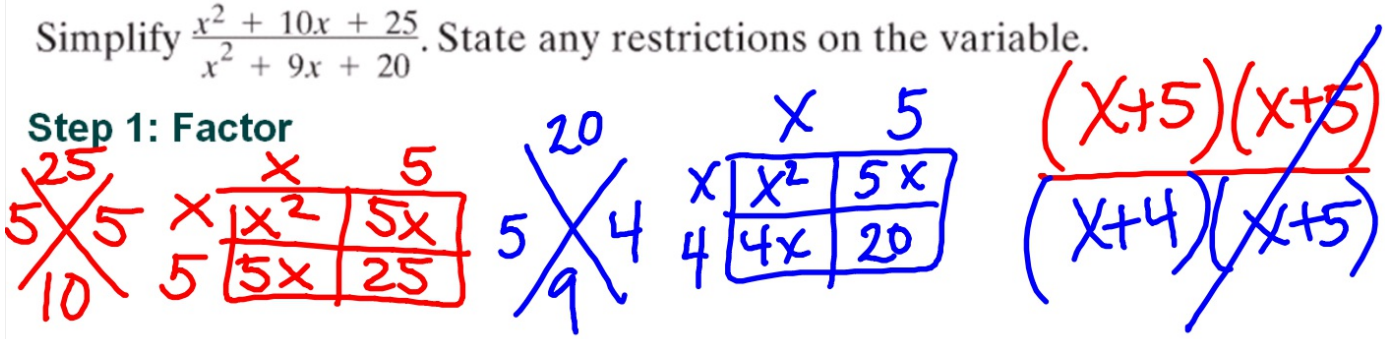
Read about simplest form and then do step one of t

A rational expression is in **simplest form** when its numerator and denominator are polynomials that have no common divisors.

In simplest form		Not in simplest form		
$\frac{x}{x-1}$	$\frac{2}{x^2+3}$	$\frac{x}{x^2}$	$\frac{\frac{1}{x}}{x+1}$	$\frac{2(x-3)}{3(x-3)}$

Simplify $\frac{x^2+10x+25}{x^2+9x+20}$. State any restrictions on the variable.

Step 1: Factor



Step 2: Find discontinuities

$x+4=0$ $\quad x+5=0$

$x=-4$ $\quad x=-5$

Step 3: Simplify

$$\frac{x+5}{x+4}, x \neq -4, -5$$