

- Follow the same rules as adding / subtracting fractions
  - Know how to find the LCD of a rational expression
  - Simplify your results
- Examples,

$$\frac{7x}{5x-3} - \frac{x}{5x-3} = \frac{7x-x}{5x-3} = \frac{6x}{5x-3}$$

$\uparrow$                        $\uparrow$   
 same denominators, subtract  
 numerators

$$\frac{2x}{(x-1)(x+3)} + \frac{5}{(x+3)}$$

Not common denominators, to fix multiply  $(x-1)$  to the numerator / denominator of

$$\frac{5}{(x+3)} \cdot \frac{(x-1)}{(x-1)} = \frac{5x-5}{(x+3)(x-1)}$$

$$\frac{2x}{(x-1)(x+3)} + \frac{5x-5}{(x+3)(x-1)} \leftarrow \text{Now we can add}$$

$$= \frac{2x + 5x - 5}{(x-1)(x+3)} = \frac{7x-5}{(x-1)(x+3)} \quad \text{Answer}$$