

Fractions with variables

Review the video on "adding, subtracting, multiplying, and dividing fractions"

Remember: $\frac{a}{b} \pm \frac{c}{d} = \frac{ad \pm cb}{bd}$

Example: $\frac{3x^2}{x+1} - \frac{2x}{5x-4} = \frac{(3x^2)(5x-4) - (2x)(x+1)}{(x+1)(5x-4)}$

$$= \frac{15x^3 - 12x^2 - 2x^2 - 2x}{5x^2 - 4x + 5x - 4} = \frac{15x^3 - 14x^2 - 2x}{5x^2 + x - 4}$$