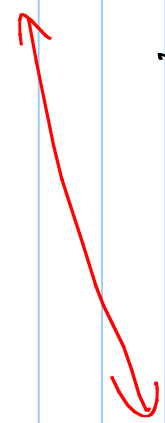


MULTIPLYING / DIVIDING RATIONAL EXPRESSIONS

- WE CAN EVALUATE $\frac{3}{4} \times \frac{8}{9} = \frac{24}{36} = \frac{2}{3}$

OR $\frac{\cancel{1}^3}{\cancel{4}^2} \times \frac{\cancel{8}^2}{\cancel{9}^3} = \frac{2}{3}$ 

OR $\frac{12x}{5y} \div \frac{6x}{10y} \Rightarrow \frac{\cancel{2}^2 \cancel{1}^2 x}{\cancel{5}^1 y} \times \frac{\cancel{2}^1 \cancel{1}^1 y}{\cancel{6}^2 x} = \frac{4}{1} = 4$

OR $\frac{4x-8}{3x-6} \times \frac{6x}{4y} = \frac{\cancel{4}^1 (\cancel{x-2})}{\cancel{3}^1 (\cancel{x-2})} \times \frac{\cancel{2}^2 \cancel{6}^1 x}{\cancel{4}^1 y} = \frac{2x}{y}$

DE

$$\frac{x^2 + 3x + 2}{x^2 + 2x + 1} \Rightarrow \frac{(\cancel{x+1})(x+2)}{(\cancel{x+1})(x+1)} \quad \}$$
$$\frac{x^2 - 1}{x - 1}$$

$$\frac{x+2}{x+1} \Rightarrow \frac{x+2}{x+1} \div x+1$$

$$\frac{x+2}{x+1} \times \frac{1}{x+1} = \frac{x+2}{(x+1)(x+1)} \quad \text{OR} \quad \frac{x+2}{(x+1)^2}$$

H/w Pg 395 # 1, 2, 4, 6 1st + 2nd