

$$\frac{\cancel{xy}^2}{2\cancel{xy}^2} = \frac{xy}{2}$$

$$\frac{(x^2 - 3x - 4)/x^2}{(x^2 - 1)/x^2}$$

$$\frac{\frac{x^2}{x^2} - \frac{3x}{x^2} - \frac{4}{x^2}}{1 - \frac{1}{x^2}}$$

$$\frac{1 - 3/x - 4/x^2}{1 - 1/x^2}$$

THIS DOES NOT HELP!

We want our num + den  
to be multiplication

so we . . . .

FACTOR!!

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

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

$$\frac{x^2 - 2x}{x^2 - 4} = \frac{x(x-2)}{(x+2)(x-2)}$$

$$\frac{x}{x+2}$$

$$\frac{x}{x+2x} = \frac{\cancel{x}}{x(1+2)} = \frac{1}{1+2} = \frac{1}{3}$$

$$\frac{\cancel{x}}{3\cancel{x}} = \frac{1}{3}$$

$$(3x - 5x^2 - 2x^3)(6x^2 - 5x + 1)^{-1}$$

$$\frac{3x - 5x^2 - 2x^3}{6x^2 - 5x + 1}$$

$$\times \frac{(3 - 5x - 2x^2)}{6x^2 - 5x + 1}$$

$\begin{matrix} 1, 6 \\ 2, 3 \end{matrix}$

$$\times \frac{(3 + x)(\underline{1 - 2x})}{6x^2 - 5x + 1}$$

$$\frac{(\underline{2x - 1})(3x - 1)}{6x^2 - 5x + 1}$$

$$1 - 2x \rightarrow 2x - 1$$

$$-(-1 + 2x)$$

$$-(2x - 1)$$

$$A - B = -(B - A)$$

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

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

$$\frac{(7+x)(2-3x) - (3x-2)}{(x-7)(3x-2)}$$
$$= \frac{(7+x)}{x-7}$$

$$1. \frac{5x^2 - 15x}{10x^2}$$

$$2. \frac{3t^4 - 9t^3}{6t^2}$$