11.5 Adding & Subtracting Rat. Exp.

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$\frac{3}{7}+\frac{2}{7}=\frac{5}{7}$

Adding:

$$\frac{a}{c}+\frac{b}{c}=\frac{a+b}{c}$$

Yes... We can add these, since they have a common Denom.

$\frac{5}{7}-\frac{2}{7}=\frac{3}{7}$

Subtraction:

$$\frac{a}{c}-\frac{b}{c}=\frac{a-b}{c}$$

ex 1

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

free stuff

Self... Do they have a Common Denom.? Yes!

ex2)

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

ex 3)

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

$$(x-4)$$

$$3x-4-2x$$

ex 4]

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

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

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

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

$$= \frac{1}{(x-1)}$$

Pg 660 : 18-3 to 9

18-31 all