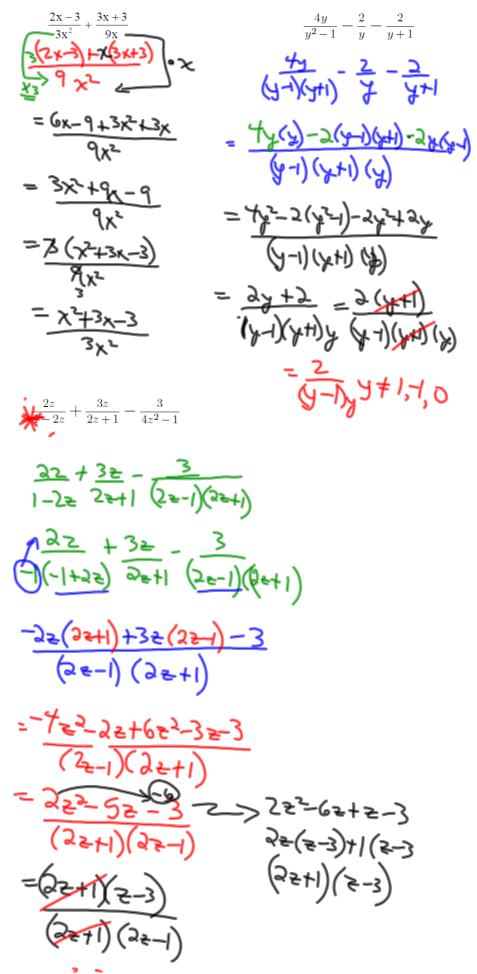
Do you really understand??...Let's find out...



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

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

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

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

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

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

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

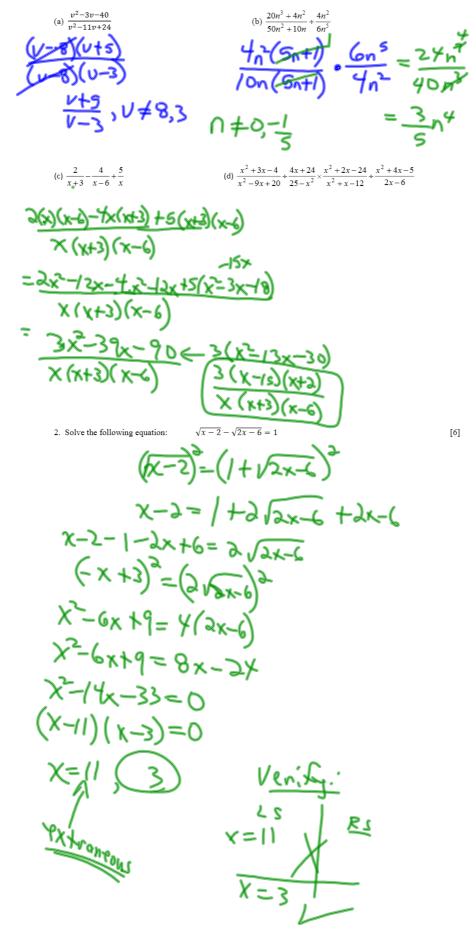
•

2

ran 11 : Open Response Show all work for each of the following in the space provided.

1. Simplify each of the following rational expressions and state all restrictions on the variables:

[17]



3

