

Pick up the half-sheet warm up

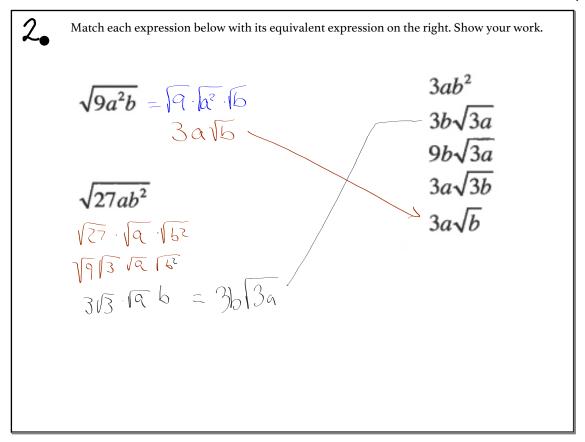
HW 7

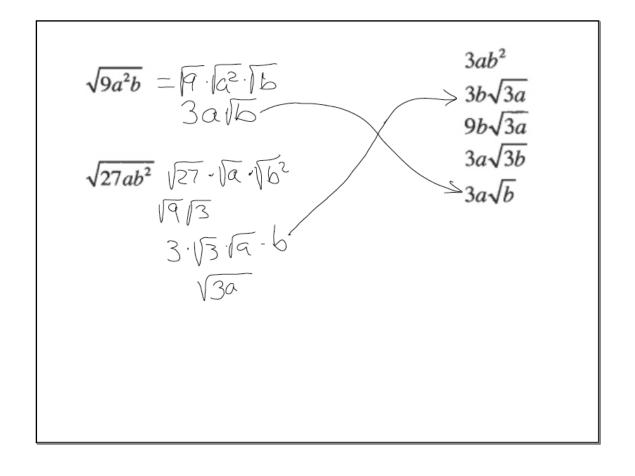


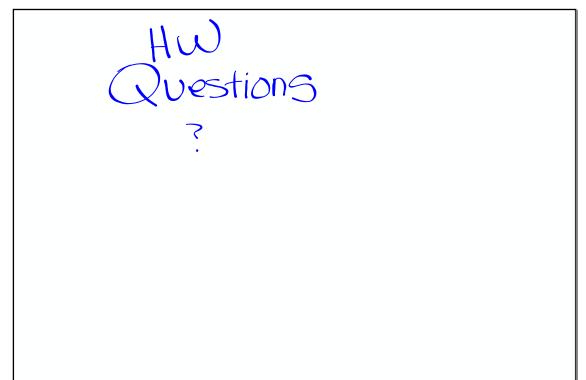
4 Add the rational expressions.

$$\frac{2a}{a+3} + \frac{1}{a}$$

$$\frac{2a}{a+3} + \frac{1}{a} \Rightarrow \frac{1}{a(a+3)} \Rightarrow \frac{2a^2 + a+3}{a(a+3)} \Rightarrow \frac{2a^2 + a+3}{$$







Add / Subtract
Rational Functions



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

$$B_{\bullet} = \frac{2x}{(\chi-1)} \xrightarrow{(x+5)} + \frac{3}{(x+5)} \xrightarrow{(x-1)} = \frac{2x^{(x+5)} + \bullet 3(x-1)}{(x-1)(x+5)}$$

$$= \frac{2x^2 + 10x + 3x - 3}{(x-1)(x+5)}$$

$$= \frac{2x^2 + 13x - 3}{(x-1)(x+5)}$$

$$C = \frac{4x - x^2}{x^2 - 16} + \frac{2}{x + 4}$$

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

$$- \times + 2$$

$$- \times + 2$$

$$\times + 4$$

$$- \times + 3$$

$$\times + 4$$

$$- \times + 3$$

$$\times + 4$$

$$- \times + 3$$

$$\times + 4$$

Back & Forth

Partner A Partner

- Alternate who writes

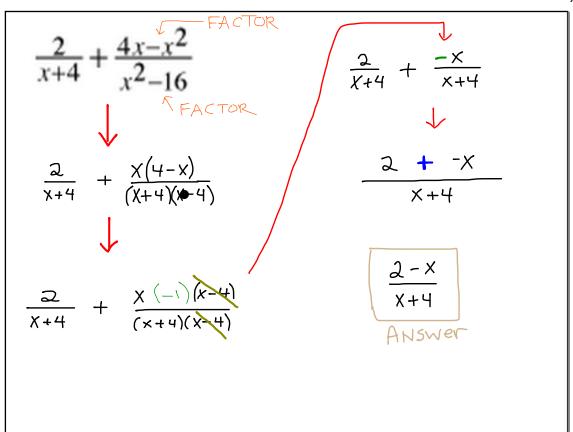
- Choose one person's notes to write

$$\frac{2}{x+4} + \frac{4x-x^2}{x^2-16}$$

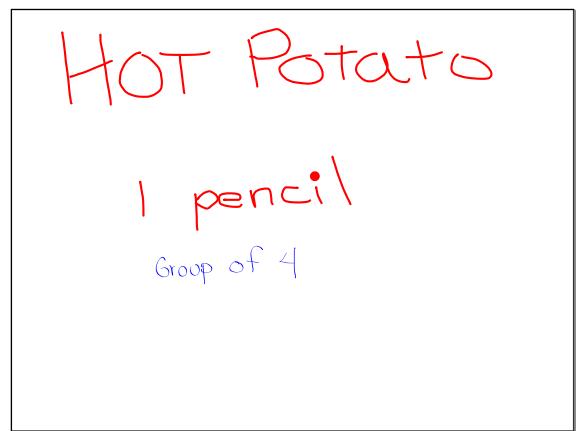
$$\frac{2}{x+4} + \frac{4x-x^2}{x^2-16}$$

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

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







A Hot Potato Every team needs one paper and one pencil or one paper and a different color of pencil for each team member.

The first person writes down the first step, simplification, or answer while explaining his or her thinking out loud.

The next person corrects the first person's work, if necessary, and then puts the next step down, while explaining their thinking out loud.

The third team member corrects anything that is incorrect and then does their writing and explaining. And so on, until the problem is completed and checked.

$$\frac{9-3x}{(x+3)(x-3)} + \frac{2x}{x+3}$$

$$-3(x+3)$$

$$+ \frac{2x}{x+3}$$

$$+ \frac{2x}{x+3}$$

Answer
$$\frac{2x-3}{x+3}$$

<u>Assignment</u>

3103a, 104d, 106, 107ab, 108-109

$$\frac{x}{2x^2-2}$$

we take
$$\frac{x}{3x+1} + \frac{2x^2-2}{(x-5)(3x+1)}$$

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

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

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

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

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

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

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

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

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

$$\frac{x}{(x-5)(3x+1)}$$

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

