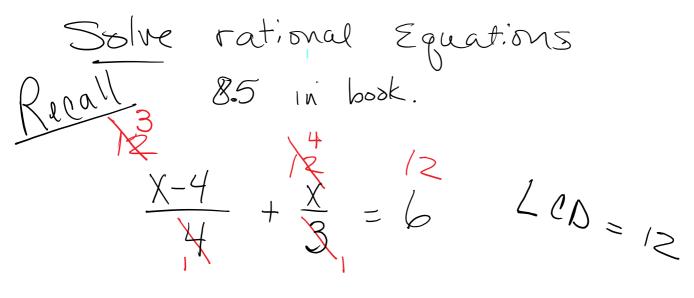
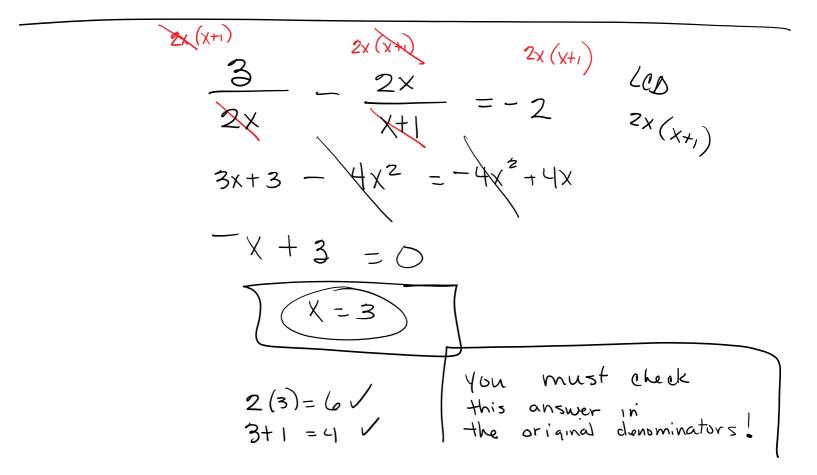
Work problems and rational equations

Friday, March 30, 2018 1:12 PM



$$3x - 12 + 4x = 72$$

Solve from $A/g!$



$$(M+1)(m-1) + \frac{m-5}{m^2 + 1} = 1 \qquad (M+1)(m-1)$$

$$\frac{2m}{m-1} + \frac{m-5}{m^2 + 1} = 1 \qquad (M+1)(m-1)$$

$$\frac{2m^2 + 2m}{(m+1)(m-1)} + \frac{1}{m^2 + 3m} - 4 = 0$$

$$(X+4)(X-1) = 0$$

Kerry can du her job in 4 hours. Sam can do the same job in 2 hours. How long will it take to complete the job if they work together?

+ 1 alone = _____ together alone LCN.

$$\frac{1}{54} + \frac{1}{8} = \frac{1}{54} + \frac{4}{54}$$

$$\frac{1}{54} + \frac{1}{8} = \frac{1}{54} + \frac{4}{54}$$

$$\frac{1}{54} + \frac{1}{54} = \frac{1}{54} + \frac{1}{54}$$

$$\frac{1}{54} + \frac{1}{54} +$$

It take Sam 2 more hours than
Karry to do a job. Together they
complete the job in 7 hours.
How long will it take each working alone,
to do the job?

$$K = \frac{1}{2} + \frac{1}{2} = \frac{1}{2}$$

 $K \cdot 42 = 52.42$
 $7x + 14 + 7x = X^2 + 2x$
 $K \cdot 42 = 12$

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$$\chi^{2} - 12x - 14 = 0$$

$$\frac{12 \pm \sqrt{144 - 4(1)(-14)}}{2}$$

$$\frac{12 \pm \sqrt{200}}{2} = \frac{13.07}{-13.07}$$

$$I \pm 4a kes \ kerry \ 13.07 \ hours$$
and Sam \ 15.07 \ hours.