Friday November 18, 2011
HW#22
Aim: How do we ADD and subtract Rational Expressions?
Test#4 TUESDAY 11/22/2011 based on HW#20
HW#8-#20 11/30/2011 at 11:45pm (END of MP2)
Tutoring: WED/FRI Room 319 3-4:30pm.
Do Now:
① ADD $\frac{3}{5}+\frac{2}{5}=\frac{5}{5}=1$
② ADD $\frac{3}{5}+\frac{1}{3}=$

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Different Method to Solve
1) $\frac{3}{5}+\frac{1}{3}=\frac{(3\cdot3)+(5\cdot1)}{(5\times3)}=\frac{9+5}{15}=\frac{14}{15}$
2) $\frac{3}{5}+\frac{1}{3}\ \frac{\times}{\div}\ \frac{9+5}{15}=\frac{14}{15}$
LCD (Least Common Denominator) = 15
3) $\frac{3}{5}+\frac{1}{3}=0.6+0.33333$
$=0.933333\ldots$

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4) $\frac{3}{5}+\frac{1}{3}=\frac{9}{15}+\frac{5}{15}$
$=\frac{14}{15}$

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I- Rational Expressions
A Same Denominator
1) $\frac{x+2}{x}+\frac{2x-5}{x}=\frac{x+2+2x-5}{x}=\frac{3x-3}{x}$
LCD = x
OR: $\frac{3(x-1)}{x}$
2) Try it! $\frac{3a}{a+1}-\frac{a}{a+1}=\frac{2a}{a+1}$

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B Different Denominators
1) $\frac{x}{2a+2}+\frac{1}{a^2-1}$ (LCD = $2(a+1)(a-1)$)
$=\frac{(a-1)+2}{2(a+1)(a-1)}=\frac{a+1}{2(a+1)(a-1)}$
$=\frac{1}{2(a-1)}$
$\frac{2(a+1)(a-1)}{2(a+1)}$
$1\times(a-1)$

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2) $\frac{b}{1}+\frac{3}{1}+\frac{1}{2b}$ (LCD = 2b)
$=\frac{2b^2+6b+1}{2b}$

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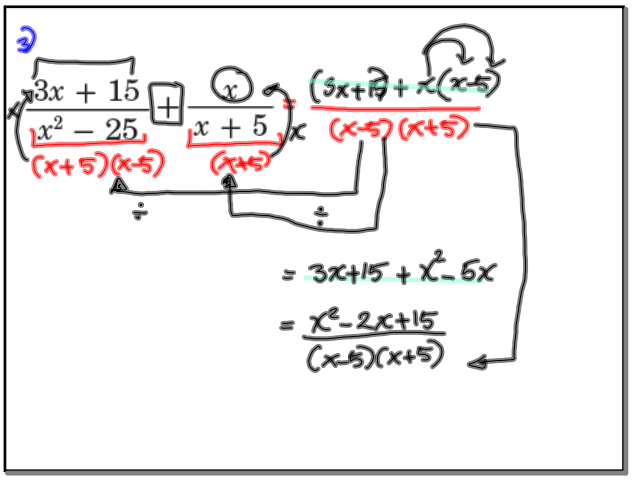

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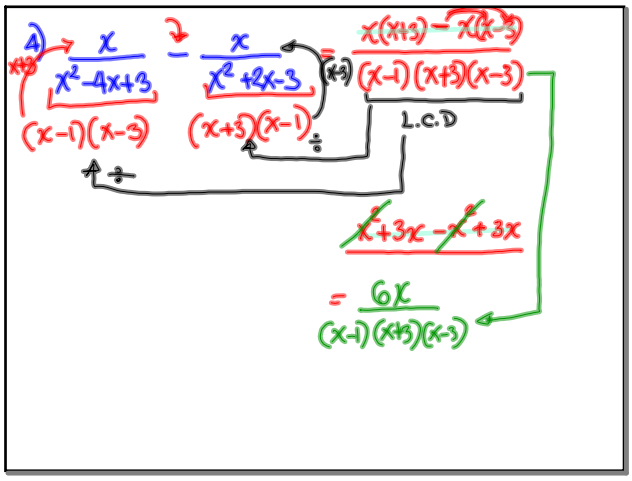

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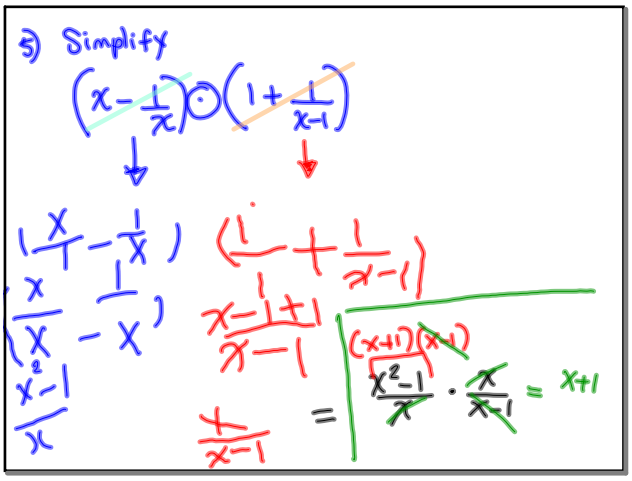

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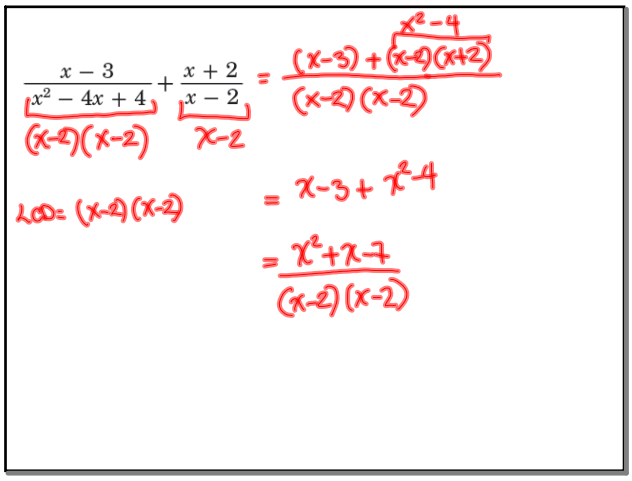

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