U1D7 MCR 3UI

Adding & Subtracting Rational Expressions Part II

Warm Up: a) Simplify and state restrictions. $\frac{2x-3}{6} - \frac{5x-2}{5}$

b) Determine the LCD of $\frac{?}{12xy^2}$ and $\frac{?}{4x^2y}$

Recall: The Steps.....

1. _____ the denominator (if possible).
2. Get a _____ _____.
3. _____ the numerator. (You may need to _____, add/subtract like terms, and then _____).
4. _____ out any common factors if possible.
5. _____, if possible.
6. _____ _____ on the variable(s).

Examples: For each of the following, state restrictions and simplify.

a) $\frac{7}{2y} + \frac{3}{y} - \frac{1}{6y}$

b) $\frac{3x+1}{6x} - \frac{1}{2} + \frac{x+6}{3x^2}$

c) $\frac{m}{m-3} - \frac{5}{m+2}$

d) $\frac{a+2}{a^2-1} - \frac{a-1}{a^2+2a+1}$

e) $\frac{2x-6}{x^2-2x-3} + \frac{15x+75}{x^2+6x+5}$

Pgs. 67-68 #3aceg, 5ace, 6acegi, 8ace, 9ace, 10acegi