

12-5 Day 3

EQ: How do you create common denominators to subtract rational expressions?

when subtracting -  
change your numerator to ADDING the OPPOSITE!

1.  $\frac{2d^2}{3d} - \frac{2d}{2d^3} \cdot 3$   
 $\frac{8d^2}{6d^3} + \frac{6d}{6d^3}$   
 $\frac{8d^2 + 6d}{6d^3}$   
 $\frac{2d(4d+3)}{3 \cdot 2d^3 \cdot d^2} = \frac{4d+3}{3d^2}$

2.  $\frac{2x^2-30}{x^2-9} - \frac{-x^2+2x+15}{x+3}$   
 $\frac{(x+3)(x-3)}{(x+3)(x-3)} - \frac{(x-5)(x+3)}{(x+3)(x-3)}$   
 $\frac{x-5}{x-3}$

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3.  $\frac{2}{x-7} + \frac{+5}{7-x} = \frac{7}{(x-7)}$   
 $\frac{2}{x-7} + \frac{-5}{x-7}$

4.  $\frac{6(y-4)}{6y^2+12y} - \frac{1}{y^2-2y-8} \cdot 6y$   
 $\frac{6y-24}{6y(y+2)} - \frac{6y}{(y-4)(y+2)6y}$   
 $\frac{6y-24}{6y(y+2)(y-4)} + \frac{-6y}{6y(y+2)(y-4)} = \frac{-24}{6y(y+2)(y-4)}$   
 $\frac{-4}{y(y+2)(y-4)}$

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Assignment

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