

Thursday December 1, 2011
 HW #23
 Aim: Practice w/ Rational Expressions
 #21-

$$\textcircled{1} \frac{7y}{3y^2} + \frac{3y}{2y^3} = \frac{7y + 3y}{2y^3} = \frac{10y}{2y^3} = \frac{5}{y^2}$$

$$\frac{8t+5}{t^2+t-12} - \frac{5t-7}{t^2+t-12} = \frac{3t+12}{t^2+t-12} = \frac{3(t+4)}{(t+4)(t-3)} = \frac{3}{t-3}$$

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Jan 1-12:34 AM

$$3) \frac{7m+8-m+7}{4m^2-25} = \frac{6m+15}{4m^2-25}$$

$$4) \frac{3}{p} + \frac{7}{4p} = \frac{3p}{4p} + \frac{7}{4p} = \frac{3p+7}{4p}$$

$$5) \frac{x^2+2x}{x^2+5x+6} - \frac{5}{x+3} = \frac{x^2+2x}{(x+2)(x+3)} - \frac{5}{x+3} = \frac{x^2+2x-5(x+2)}{(x+2)(x+3)} = \frac{x^2+2x-5x-10}{(x+2)(x+3)} = \frac{-3x-10}{(x+2)(x+3)}$$

$$6) \frac{4k}{k-6} + \frac{k}{6-k} = \frac{4k}{k-6} - \frac{k}{k-6} = \frac{3k}{k-6}$$

Jan 1-12:54 AM

Jan 1-12:58 AM

$$7. \frac{x}{2x-10} + \frac{1}{3x-15} = \frac{x}{2(x-5)} + \frac{1}{3(x-5)} = \frac{3x+2}{6(x-5)}$$

$$8) \frac{cx^2}{c^2(c^2-b^2)} + \frac{d(c^2-b)}{c^2(c^2-b)} = \frac{c^3+dc^2-d^3}{c^2(c^2-d^2)}$$

$$= \frac{5x+5(x-5)+(x-5)(x+1)}{5(x-5)(x+1)} = \frac{x^2+6x-30}{5(x-5)(x+1)}$$

Jan 1-1:02 AM

Jan 1-1:14 AM