Warm Up *Add, Subtract, Multiply, Divide WS #'s-1, 2, 3, 5, 8, 9, 12, 13, 15

*Checking homework-please get it out (ws and book work day 2)

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Warm Up

Evaluate each expression.

$$\frac{7!}{7!} \frac{4}{5} + \frac{4}{7} \cdot 5$$

$$\frac{28}{35} + \frac{20}{35} = \frac{48}{35}$$

2)
$$\frac{5}{4} + \frac{3}{4}$$
 $\frac{8}{4} = 2$

4.
$$\frac{4}{3}$$
 $\frac{1}{2} + \frac{11}{8}$ $\frac{4}{8} + \frac{11}{8} = \frac{15}{8}$

$$3^{4}$$
 $\frac{5}{4}$ $+\frac{4}{3}$ $+\frac{4}{12}$ $+\frac{15}{12}$ $+\frac{16}{12}$ $+\frac{16}{12}$

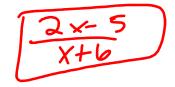
Adding & Subtracting with Like Dominators

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

Add or Subtract

$$1) \frac{1}{4x} + \frac{3}{4x}$$

$$\frac{4}{4x} = \boxed{\frac{1}{x}}$$



Add or Subtract

TOYO

4)
$$3x - 1$$

 $2x+5 2x+5$

Adding & Subtracting with Unlike Dominators

$$\frac{4}{3} - \frac{2}{7}$$

$$\frac{4}{3} (x7) = \frac{28}{21} \qquad \frac{2}{7} (x3) = \frac{6}{21}$$
so $\frac{28}{21} - \frac{6}{21} = \frac{22}{21}$

1)
$$\frac{7}{9x^2} + \frac{x}{3x^2 + 3x(x+1)} = \frac{x}{9x^2} + \frac{x}{3x} = \frac{3x}{3x^2 + 3x} = \frac{7x + 7 + 3x^2}{9x^2(x+1)} = \frac{3x^2 + 7x + 7}{9x^2(x+1)} = \frac{3x^2 + 7x + 7}{9x^2(x+1)}$$

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

3)
$$\frac{1}{3x^{2}} + \frac{x}{9x^{2}} - 12x$$
 $(3x-4) \frac{1}{3x^{2}} + \frac{x}{3x} (3x-4) \cdot x$
 $\frac{3}{3x^{2}} (3x-4) + \frac{x^{2}}{3x^{2}} (3x-4)$
 $\frac{x^{2} + 3x - 4}{3x^{2}(3x-4)} = \frac{(x+4)(x-1)}{3x^{2}(3x-4)}$

4)
$$\frac{x}{x^{2}-x-12} + \frac{5}{12x-48}$$
 $12 \cdot x^{2} + \frac{5}{12(x-4)(x+3)}$
 $12 \cdot x + \frac{5}{12(x-4)(x+3)}$

Subtracting Rational Expressions

1)
$$\frac{x+2}{2x-2} - \frac{-2x-1}{x^2-4x+3}$$
 $(x-3)x+2 - \frac{1}{x^2-4x+3}$
 $(x-3)=(x-1)$
 $(x-3)(x-1)$
 $\frac{x^2+2x-3x-6+4x+2}{2(x-3)(x-1)}$
 $\frac{x^2+3x-4}{2(x-3)(x-1)}$
 $\frac{(x+4)(x-1)}{2(x-3)(x-1)} = \frac{x+4}{2(x-3)}$

Subtracting Rational Expressions

2)
$$\frac{x}{3x-15} - \frac{2x+2}{x^2-4x-5}$$
 $(x+1) - \frac{2x+2}{x^2-4x-5}$
 $(x+1) - \frac{2x+2}{x^2-4x-5}$
 $(x+1) - \frac{2x+2}{x^2-5}$
 $(x+2) - \frac{2x+2}{x^2-5}$
 $($

Homework:

Finish ws

pg 586 #7, 11-14, 17-29 odd