

WARMUP - NO CALCULATOR

Divide the following: Hint, write using one ÷ symbol.

1) $\frac{8x^2y}{\frac{x+1}{6xy^5}}$ Simplify the sum.

$\frac{18}{3n} = \frac{6}{n}$ $\frac{5}{3n} + \frac{11}{3n} + \frac{2}{3n}$

Add or Subtract.

3) $\frac{3}{14} + \frac{2}{14} = \frac{5}{14}$ 4) $\frac{2}{3} + \frac{1}{6}$ 5) $\frac{2}{5} - \frac{1}{7}$

6) How would you find the LCD of: $\frac{1}{9}$ and $\frac{2}{19}$


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9.4 Adding and Subtracting Rational Expressions

Are the denominators the same?

1) $\frac{2}{x} - \frac{5}{x}$ 2) $\frac{2x^2}{xy} - \frac{3y}{xy}$


$\frac{-3}{x}$ $\frac{2x^2 - 3y}{xy}$

$x \neq 0$ $x \neq 0, y \neq 0$



Are the denominators the same?


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



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

$\frac{x^2+2x-3}{x+3}$


$\frac{(x-1)(x+3)}{(x+3)}$ $x \neq -3$ $(x-1)$



5) $\frac{5x}{x^2-5x-14} - \frac{-4x-7}{x^2-5x-14}$

$\frac{5x-4x-7}{x^2-5x-14} = \frac{x-7}{(x-7)(x+2)}$

$x \neq 7, -2$ $\frac{1}{x+2}$



HOMEWORK:

Workbook Pg 69-70

