

Warm-Up

Simplify.

HW:

Fraction Review Ditto #1-20 (evens only)

$$1) \frac{\frac{1}{2}}{\frac{1}{6}} = \frac{1}{\cancel{2}_1} \cdot \frac{\overset{3}{\cancel{6}^1}}{1} = \frac{3}{1} = 3$$

$$2) \frac{\frac{5}{2x}}{\frac{7x}{2}} = \frac{\overset{5}{\cancel{2x}} \cdot \overset{7x}{\cancel{2}}}{\cancel{2x} \cdot \cancel{2}} = \frac{35}{4}$$

$$\begin{aligned}
 & \text{LCD } 20 \quad 4 \cdot \frac{8x}{5} - \frac{3x}{4} \cdot 5 + \frac{7x}{10} \cdot 2 \\
 & = \frac{32x}{20} - \frac{15x}{20} + \frac{14x}{20} \\
 & = \frac{31x}{20}
 \end{aligned}$$

$$\begin{aligned}
 & \text{LCD } xyz \quad \frac{1 \cdot z}{xy \cdot z} + \frac{1 \cdot x}{yz \cdot x} \\
 & = \frac{z}{xyz} + \frac{x}{xyz} \\
 & = \frac{z+x}{xyz}
 \end{aligned}$$

$$\begin{aligned}
 & \text{LCD } 2(x-3) \quad \frac{5 \cdot 2}{(x-3) \cdot 2} + \frac{7}{\cancel{2x-6} \cdot 2(x-3)} \\
 & = \frac{10 + 7}{2(x-3)} \\
 & = \frac{17}{2(x-3)}
 \end{aligned}$$

$$\begin{aligned}
 & \frac{3}{2x-3y} + \frac{5 \cdot (-1)}{\cancel{3y-2x} \cdot (-1)} \\
 & \frac{3}{2x-3y} + \frac{-5}{2x-3y} \\
 & \frac{-2}{2x-3y}
 \end{aligned}$$

$$\begin{array}{r}
 \cdot 3 \quad \frac{x}{x^2-36} - \frac{4}{3x+18} \cdot \frac{(x-6)}{(x-6)} \quad \text{LCD} \\
 \cdot 3 \quad \frac{x}{(x-6)(x+6)} - \frac{4}{3(x+6)} \cdot \frac{3(x-6)}{3(x-6)(x+6)} \\
 \hline
 \frac{3x - 4x - 24}{3(x-6)(x+6)} \\
 \hline
 \frac{-x - 24}{3(x-6)(x+6)} =
 \end{array}$$

$$\begin{array}{r}
 \frac{9}{a^2-b^2} + \frac{3}{b-a} \cdot \frac{(-1)}{(-1)} \\
 \frac{9}{(a+b)(a-b)} + \frac{(-3)}{(-b+a)} \\
 \frac{9}{(a+b)(a-b)} + \frac{-3}{(a-b) \cdot (a+b)} \\
 \hline
 \frac{9-3a-3b}{(a+b)(a-b)}
 \end{array}$$

HW: Evens
only

HW:

Fraction Review Ditto #1-20 (evens only)
(it is not a quiz grade)

Warm-Up

Simplify.

$$1) \frac{\frac{1}{2}}{\frac{1}{6}}$$

$$2) \frac{\frac{5}{2x}}{\frac{2}{7x}}$$

HW:

Fraction Review Ditto #1-20 (evens only)
(it is not a quiz grade)