

HW DAY 3

Activity 23

Name: _____

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Simplify each sum or difference.

A	B	C	D	E	F
$\frac{x+13}{6x}$	$\frac{x+11}{2x}$	$\frac{-4x+10}{(x+2)(x-2)}$	$\frac{-4x+10}{(x+2)(x-2)}$	$\frac{x+13}{6x}$	$\frac{x+11}{2x}$
$\frac{5}{x-3}$	$\frac{2x-1}{x-1}$	$\frac{3x^2+x+5}{5(x+2)}$	$\frac{-3x+17}{2x(x-1)}$	$\frac{5}{x-3}$	$\frac{2x-1}{x+1}$
$\frac{x+29}{4(x-3)}$	$\frac{2x^2+17x}{5(x+1)}$	$\frac{x}{x+1}$	$\frac{2x^2-4}{(x+1)(x+2)}$	$\frac{x+29}{4(x-3)}$	$\frac{2x^2+17x}{5(x+1)}$
$\frac{2x^2+17x}{5(x+1)}$	$\frac{x+29}{4(x-3)}$	$\frac{3x^2+x+5}{5(x+2)}$	$\frac{-3x+17}{2x(x-1)}$	$\frac{2x^2+17x}{5(x+1)}$	$\frac{x+29}{4(x-3)}$
$\frac{x+13}{6x}$	$\frac{x+11}{2x}$	$\frac{x-1}{x+1}$	$\frac{2x^2-4}{(x+1)(x+2)}$	$\frac{x+13}{6x}$	$\frac{x+11}{2x}$
$\frac{5}{x-3}$	$\frac{2x-1}{x-1}$	$\frac{x^2-2x+4}{3(x-2)}$	$\frac{x^2-2x+4}{3(x-2)}$	$\frac{5}{x-3}$	$\frac{2x-1}{x-1}$

$$\frac{2}{x-3} + \frac{3}{x-3} = \frac{5}{x-3}$$

$$\frac{x+1}{x-1} + \frac{x-2}{x-1} = \frac{2x-1}{x-1}$$

$$\frac{2x}{5(x+1)} + \frac{3x \cdot 5}{(x+1)5} = \frac{2x^2+2x+15x}{5(x+1)} = \frac{2x^2+17x}{5(x+1)}$$

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

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

$$\frac{(x+4)^2}{x \cdot 2} - \frac{x-3}{2x} = \frac{2x^2+8x+3}{2x} = \frac{x+11}{2x}$$

$$\frac{4(x+5)}{4(x-3)} - \frac{3(x-3)}{4(x-3)} = \frac{4x+20-3x+9}{4(x-3)} = \frac{x+29}{4(x-3)}$$

$$\frac{x}{x^2-4} - \frac{5}{x+2} = \frac{-4x+10}{(x+2)(x-2)}$$

$$\frac{3x(x+2)}{5(x+2)} - \frac{(x-1)5}{(x+2)5} = \frac{3x^2+6x-5x+5}{5(x+2)} = \frac{3x^2+x+5}{5(x+2)}$$

$$\frac{x+6}{x^2-x} - \frac{5}{2} = \frac{-3x+17}{2x(x-1)}$$

$$\frac{(x+1)^3}{2x \cdot 3} - \frac{(x-5)^2}{3x \cdot 2} = \frac{3x^2+3-2x+10}{6x} = \frac{x+13}{6x}$$

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

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