

Name \_\_\_\_\_ REM Addition and Subtraction of Rational Expressions 1 Period \_\_\_\_\_

Completely simplify each sum or difference into a single completely simplified fraction SHOW ALL STEPS

$$\frac{10x+4}{5x} + \frac{x-5}{6}$$

$$\frac{5x^2 + 35x + 24}{30x}$$

$$\frac{3x^2+5x}{3x} + \frac{x^2+9x}{x-8}$$

$$\frac{6x^2 - 8x - 40}{3(x-8)}$$

$$\frac{3x+4}{4x^4} - \frac{5x-2}{9}$$

$$\frac{-20x^5 + 8x^4 + 27x + 36}{36x^4}$$

$$\frac{x^2+5x}{5x+3} - \frac{2x^2-9x}{4x}$$

$$\frac{-6x^2 + 59x + 27}{4(5x+3)}$$

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$$\frac{8x+3}{2x-1} + \frac{x-6}{x+2}$$

$$\frac{16x^2 + 6x + 12}{(x+2)(2x-1)}$$

$$\frac{x^2+6x}{x+3} + \frac{x^2-5x}{x-8}$$

$$\frac{2x^3 - 4x^2 - 63x}{(x+3)(x-8)}$$

$$\frac{5x+40}{5x^3+10x} - \frac{3x-15}{x-8}$$

$$\frac{-3x^4 + 15x^3 - 5x^2 + 30x - 64}{x(x-8)(x^2+2)}$$

$$\frac{x^2-8x}{7x+2} - \frac{5x^2-15x}{5x^2+3x}$$

$$\frac{5x^3 - 72x^2 + 71x + 30}{(7x+2)(5x+3)}$$

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$$\frac{4x+7}{8x} + \frac{x-9}{7}$$

$$\frac{8x^2 - 44x + 49}{56x}$$

$$\frac{7x^2+2x}{7x} + \frac{x^2-4x}{x-2}$$

$$\frac{14x^2 - 40x - 4}{7(x-2)}$$

$$\frac{3x+11}{6x^3} - \frac{5x-2}{7}$$

$$\frac{-30x^4 + 42x^3 + 21x + 77}{42x^3}$$

$$\frac{x^2+9x}{3x+7} - \frac{5x^2-2x}{7x}$$

$$\frac{-8x^2 + 36x + 14}{7(3x+7)}$$

Completely simplify each sum or difference into a single completely simplified fraction SHOW ALL STEPS

$$\frac{4x+5}{2x-7} + \frac{x-4}{x+5}$$

$$\frac{6x^2 + 10x + 53}{(x-5)(2x-7)}$$

$$\frac{x^2+8x}{x+2} + \frac{x^2-6x}{x-3}$$

$$\frac{2x^3 + x^2 - 36x}{(x+2)(x-3)}$$

$$\frac{7x+2}{5x^3+4x} - \frac{6x-1}{x-8}$$

$$\frac{-30x^4 + 5x^3 - 17x^2 - 50x - 12}{x(x-8)(5x^2+4)}$$

$$\frac{x^2-8x}{4x+5} - \frac{8x^2-10x}{2x^2+4x}$$

$$\frac{x^3 - 22x^2 - 16x + 25}{(x+2)(4x+5)}$$

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$$\frac{7x+3}{9x} + \frac{x-5}{8}$$

$$\frac{9x^2 + 11x + 24}{72x}$$

$$\frac{11x^2 + 3x}{5x} + \frac{x^2 - 4x}{x-8}$$

$$\frac{16x^2 - 105x - 24}{5(x-8)}$$

$$\frac{6x+3}{7x^3} - \frac{8x-5}{4}$$

$$\frac{-56x^4 + 35x^3 + 24x + 12}{28x^3}$$

$$\frac{x^2 + 4x}{6x+5} - \frac{7x^2 - 1x}{5x}$$

$$\frac{-37x^2 - 9x + 5}{5(6x+5)}$$

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$$\frac{9x+2}{3x-8} + \frac{x-5}{x+6}$$

$$\frac{12x^2 + 33x + 52}{(x+6)(3x-8)}$$

$$\frac{x^2+5x}{x+10} + \frac{x^2-2x}{x-6}$$

$$\frac{2x^3 + 7x^2 - 50x}{(x-6)(x-10)}$$

$$\frac{5x+3}{3x^3+5x} - \frac{3x-5}{x-7}$$

$$\frac{-9x^4 + 15x^3 - 10x^2 - 7x - 21}{x(x-7)(3x^2+5)}$$

$$\frac{x^2-2x}{4x+5} - \frac{12x^2-6x}{3x^2+9x}$$

$$\frac{x^3 - 15x^2 - 18x + 10}{(x+3)(4x+5)}$$

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$$\frac{5x+2}{6x} + \frac{x-15}{3}$$

$$\frac{2x^2 - 25x + 2}{6x}$$

$$\frac{6x^2 + 11x}{9x} + \frac{x^2 - 4x}{x - 10}$$

$$\frac{14x^2 - 85x - 10}{9(x-10)}$$

$$\frac{6x+5}{2x^3} - \frac{5x-3}{9}$$

$$\frac{-10x^4 + 6x^3 + 54x + 45}{18x^3}$$

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

$$\frac{-5x^2 - x + 49}{5(2x+7)}$$

Completely simplify each sum or difference into a single completely simplified fraction SHOW ALL STEPS

$$\frac{10x+4}{5x-7} + \frac{x-6}{x+3}$$

$$\frac{15x^2 - 3x + 54}{(5x-7)(x+3)}$$

$$\frac{x^2+4x}{x+10} + \frac{x^2-6x}{x-9}$$

$$\frac{2x^3 - x^2 - 96x}{(x-9)(x+10)}$$

$$\frac{3x+5}{8x^3+10x} - \frac{5x-7}{x-1}$$

$$\frac{-40x^4 + 56x^3 - 47x^2 + 72x - 5}{2x(x-1)(4x^2+5)}$$

$$\frac{x^2-3x}{3x+11} - \frac{15x^2-20x}{5x^2+10x}$$

$$\frac{x^3 - 10x^2 - 27x + 44}{(x+2)(3x+11)}$$