

Name _____ FA Addition and Subtraction of Rational Expressions 1 Period _____

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

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

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

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

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

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

$$\frac{2x + 3}{5x - 1} + \frac{x - 1}{x + 2}$$

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

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

$$\frac{x^2 - 4x}{5x + 2} - \frac{4x^2 - 10x}{2x^2 + 6x}$$

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$$\frac{3x + 7}{6x} + \frac{x - 6}{7}$$

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

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

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

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

$$\frac{3x+4}{2x-3} + \frac{x-2}{x+1}$$

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

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

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

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$$\frac{5x + 3}{4x} + \frac{x - 8}{9}$$

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

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

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

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

$$\frac{7x + 2}{2x - 5} + \frac{x - 4}{x + 3}$$

$$\frac{x^2 + 2x}{x + 7} + \frac{x^2 - 4x}{x - 3}$$

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

$$\frac{x^2 - 8x}{4x + 5} - \frac{10x^2 - 6x}{2x^2 + 8x}$$

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

$$\frac{3x^2 + 7x}{9x} + \frac{x^2 - 2x}{x - 10}$$

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

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

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

$$\frac{9x + 4}{2x - 7} + \frac{x - 5}{x + 2}$$

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

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

$$\frac{x^2 - 2x}{3x + 5} - \frac{12x^2 - 8x}{4x^2 + 6x}$$