

Lesson 10: Adding and Subtracting Rational Expressions

Add and simplify.

$$1) \frac{5}{4x} + \frac{8}{3x+3}$$

$$2) \frac{4}{15x} + \frac{20x}{2x+8}$$

$$3) \frac{3}{12x^3} + \frac{8x}{3x+9}$$

Add and simplify.

$$4) \frac{4x}{5x+5} + \frac{8x^3}{3x+3}$$

$$5) \frac{15x}{x^2+4x} + \frac{20x}{2x+8}$$

$$6) \frac{12x^3}{x^2+4x+3} + \frac{8x}{3x+9}$$

Subtract and simplify.

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

$$8) \frac{15x}{x^2+4x} - \frac{20x}{2x+8}$$

$$9) \frac{12x^3}{x^2+4x+3} - \frac{8x}{3x+9}$$