

Algebraic Fractions

Simplify each of the following:

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

$$2) \frac{3}{x-4} - \frac{2}{x-3}$$

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

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

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

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

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

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

$$9) \frac{2x+2}{x^2+10x+24} + \frac{3}{x+4}$$

$$10) \frac{2}{x-5} - \frac{x+9}{x^2-3x-10}$$

$$11) \frac{5}{x+2} + \frac{3x-21}{x^2-x-6}$$

$$12) \frac{5x-11}{x^2-5x+6} - \frac{4}{x-3}$$

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