ALGEBRAIC FRACTIONS
ADDITION AND SUBTRACTION

Ref: G282. **1R1**

A1 Simplify $$\frac{x}{5}+\frac{3x}{4}$$	**A2** Simplify $$\frac{3x}{2}-\frac{5x}{6}$$	**A3** Simplify $$\frac{x+3}{5}+\frac{x-5}{4}$$	**A4** Simplify $$\frac{2x-1}{3}-\frac{2}{5}$$
B1 Simplify $$\frac{4}{x-1}+\frac{3}{x+1}$$	**B2** Simplify $$\frac{3}{x+1}-\frac{6}{2x+3}$$	**B3** Simplify $$\frac{3}{2x-3}-\frac{1}{x+2}$$	**B4** Simplify $$\frac{3}{x-1}-\frac{2}{x}$$
C1 Simplify $$\frac{2}{x-1}+\frac{x-11}{x^2+3x-4}$$	**C2** Simplify $$\frac{2}{x+2}+\frac{x}{x^2+5x+6}$$	**C3** Simplify $$\frac{2}{x-1}+\frac{x}{x^2-4x+3}$$	**C4** Simplify $$\frac{5}{2x-6}-\frac{x+2}{x^2-4x+3}$$
D1 Simplify $$1+\frac{4}{(x+3)(x-2)}$$	**D2** Simplify $$1+\frac{x^2+x-6}{(x+4)(x-2)}$$	**D3** Simplify $$2+\frac{5-x}{x^2-2x-15}$$	**D4** Simplify $$5-(x+2)\div\left(\frac{x^2-4}{x-3}\right)$$

ALGEBRAIC FRACTIONS
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Ref: G282. **1R1**

A1 Simplify $$\frac{x}{5}+\frac{3x}{4}$$ $$\frac{19x}{20}$$	**A2** Simplify $$\frac{3x}{2}-\frac{5x}{6}$$ $$\frac{2x}{3}$$	**A3** Simplify $$\frac{x+3}{5}+\frac{x-5}{4}$$ $$\frac{9x-13}{20}$$	**A4** Simplify $$\frac{2x-1}{3}-\frac{2}{5}$$ $$\frac{10x-11}{15}$$
B1 Simplify $$\frac{4}{x-1}+\frac{3}{x+1}$$ $$\frac{7x+1}{(x-1)(x+1)} \ \text{or} \ \frac{7x+1}{x^2-1}$$	**B2** Simplify $$\frac{3}{x+1}-\frac{6}{2x+3}$$ $$\frac{3}{(2x+3)(x+1)}$$	**B3** Simplify $$\frac{3}{2x-3}-\frac{1}{x+2}$$ $$\frac{x+9}{(2x-3)(x+2)}$$	**B4** Simplify $$\frac{3}{x-1}-\frac{2}{x}$$ $$\frac{x+2}{x(x-1)}$$
C1 Simplify $$\frac{2}{x-1}+\frac{x-11}{x^2+3x-4}$$ $$\frac{3}{x+4}$$	**C2** Simplify $$\frac{2}{x+2}+\frac{x}{x^2+5x+6}$$ $$\frac{3}{x+3}$$	**C3** Simplify $$\frac{2}{x-1}+\frac{x}{x^2-4x+3}$$ $$\frac{3(x-2)}{(x-1)(x-3)}$$	**C4** Simplify $$\frac{5}{2x-6}-\frac{x+2}{x^2-4x+3}$$ $$\frac{3}{2(x-1)}$$
D1 Simplify $$1+\frac{4}{(x+3)(x-2)}$$ $$\frac{(x+2)(x-1)}{(x+3)(x-2)}$$	**D2** Simplify $$1+\frac{x^2+x-6}{(x+4)(x-2)}$$ $$\frac{2x+7}{x+4}$$	**D3** Simplify $$2+\frac{5-x}{x^2-2x-15}$$ $$\frac{2x+5}{x+3}$$	**D4** Simplify $$5-(x+2)\div\left(\frac{x^2-4}{x-3}\right)$$ $$\frac{4x-7}{x-2}$$

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