

Algebraic Fractions

1) Simplify:

(a) $\frac{x+2}{3} + \frac{x+3}{2}$

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

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

(d) $\frac{x+2}{2} - \frac{x+3}{5}$

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

(f) $\frac{5x-2}{3} - \frac{2x-3}{4}$

2) Solve the following equations:

(a) $\frac{3x+2}{4} = 5$

(b) $\frac{6x-2}{4} = x+7$

(c) $\frac{7x+4}{3} = 2x-5$

(d) $\frac{x+2}{3} + \frac{x+6}{2} = 7$

(e) $\frac{x-2}{5} + \frac{x+3}{2} = 6$

(f) $\frac{x-2}{3} - \frac{x-6}{4} = 0$

(g) $\frac{3x+2}{2} - \frac{2x+5}{3} = 4$

(h) $\frac{5x+4}{x+2} = 4$

(i) $\frac{3x+4}{x-2} = 5$

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