

Addition and Subtraction of Algebraic Fractions

1

Add the following, simplifying your answers:

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

b) $\frac{1}{x} + \frac{y}{x}$

c) $\frac{4xy}{3z} + \frac{2xy}{3z}$

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

e) $\frac{5x+2}{x} + \frac{2x+4}{x}$

f) $\frac{6x}{3} + \frac{2x+y}{6}$

g) $\frac{x}{8} + \frac{2+y}{24}$

h) $\frac{x}{10} + \frac{y-1}{5}$

i) $\frac{2x}{3} + \frac{2x}{4}$

j) $\frac{x}{6} + \frac{5x}{7}$

k) $\frac{x}{3} + \frac{x}{y}$

l) $\frac{zx}{4} + \frac{x+z}{y}$

2

Subtract the following, leaving your answer as simplified as possible:

a) $\frac{4x}{3} - \frac{5y}{3}$

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

c) $\frac{(8x+3y)}{2x} - \frac{(4x+2)}{2x}$

d) $\frac{(9-5x)}{3x} - \frac{(3+x)}{3x}$

e) $\frac{10+x^2}{4x} - \frac{x^2+11}{4x}$

f) $\frac{2x}{3} - \frac{y}{6}$

g) $\frac{z}{5} - \frac{2z}{15}$

h) $\frac{4m}{n} - \frac{m}{3}$

i) $\frac{2b}{a} - \frac{b}{7}$

j) $\frac{(p+q)}{2} - \frac{3p}{5}$

k) $\frac{p-2q}{4} - \frac{2p+q}{2}$

l) $\frac{3x}{y} - \frac{4-x}{3}$