

QUESTION 1 Find the sum of these algebraic fractions.

a $\frac{x}{8} + \frac{x}{8} =$ _____

b $\frac{3x}{5} + \frac{2x}{5} =$ _____

c $\frac{9x}{15} + \frac{8x}{15} =$ _____

d $\frac{a}{9} + \frac{a}{9} =$ _____

e $\frac{x}{7} + \frac{x}{7} =$ _____

f $\frac{y}{6} + \frac{y}{6} =$ _____

g $\frac{x}{3} + \frac{x}{4} =$ _____

h $\frac{a}{9} + \frac{2a}{7} =$ _____

i $\frac{3a}{7} + \frac{a}{2} =$ _____

j $\frac{3x}{5} + \frac{5x}{7} =$ _____

k $\frac{2m}{3} + \frac{5m}{9} =$ _____

l $\frac{2a}{5} + \frac{3a}{7} =$ _____

QUESTION 2 Subtract the following algebraic fractions.

a $\frac{2a}{3} - \frac{a}{3} =$ _____

b $\frac{5x}{7} - \frac{3x}{7} =$ _____

c $\frac{15y}{11} - \frac{5y}{11} =$ _____

g $\frac{x}{3} - \frac{x}{7} =$ _____

h $\frac{x}{8} - \frac{x}{12} =$ _____

i $\frac{y}{12} - \frac{y}{18} =$ _____

j $\frac{3x}{20} - \frac{x}{10} =$ _____

k $\frac{2a+1}{7} - \frac{a}{14} =$ _____

l $\frac{5x+1}{4} - \frac{x}{12} =$ _____

QUESTION 3 Simplify the following.

a $\frac{3x}{2} + \frac{5x}{3} =$ _____

b $\frac{x}{4} - \frac{x}{5} =$ _____

c $\frac{x}{2} + \frac{x}{4} =$ _____

d $\frac{x}{8} - \frac{x}{4} =$ _____

e $\frac{x}{2} + \frac{5x}{6} =$ _____

f $\frac{3x}{4} - \frac{x}{12} =$ _____

g $\frac{2x}{9} + \frac{x}{3} =$ _____

h $\frac{7x}{8} - \frac{x}{12} =$ _____

i $\frac{7x}{10} + \frac{x}{25} =$ _____

j $\frac{5x}{24} - \frac{x}{36} =$ _____

k $\frac{5x}{8} - \frac{x}{4} + \frac{x}{16} =$ _____

l $\frac{m}{10} + \frac{7m}{5} - \frac{2m}{25} =$ _____