

(Write as a Single Fraction)



Write as a single fraction in its simplest form.

(a) $\frac{b^2-9}{6} \times \frac{2}{b-3}$ [2]

(b) $\frac{x}{2} + \frac{5x}{3} - \frac{7x}{4}$ [2]

(c) $\frac{x+2}{3} - \frac{2x-1}{4} + 1$ [3]

(d) $\frac{1}{2x} + \frac{2}{5x}$ [2]

(e) $\frac{2}{x} + \frac{1}{2x} + \frac{1}{2}$ [2]

(f) $1 - \frac{2}{p} - \frac{3}{t}$ [2]

(g) $\frac{3}{2x} + \frac{2x}{3} + 3 + 2x$ [4]

(h) $\frac{1}{y-1} - \frac{1}{y}$ [3]

(i) $3 - \frac{t+2}{t-1}$ [3]

(j) $\frac{x}{2} - \frac{2x+4}{x+1}$ [3]

(k) $\frac{3}{x-4} + \frac{2}{2x+5}$ [3]

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

(m) $\frac{x+3}{x-3} - \frac{x-1}{x+1}$ [4]

(n) $\frac{5}{x-3} + \frac{3}{x+7} + \frac{1}{2}$ [4]

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ANSWERS:

a) $(b + 3)/3$

d) $9 / 10x$

g) $(16x^2 + 18x + 9)/ 6x$

j) $(x^2 - 3x - 8)/2(x + 1)$

m) $8x / (x - 3)(x + 1)$

b) $5x / 12$

e) $(5 + x)/ 2x$

h) $1/ y(y - 1)$

k) $(8x + 7)/ (x - 4)(2x + 5)$

n) $(x^2 + 20x + 31)/2(x - 3)(x + 7)$

c) $(-2x + 23)/ 12$

f) $(pt - 2t - 3p)/pt$

i) $(2t - 5)/(t - 1)$

l) $(x - 5)/(x + 2)(3x - 1)$