

















Г

| 1) Simplify fully | <i>i</i> : | | |
|--|---------------------------------|---------------------------------|-----------------------------------|
| (a) $\frac{4d+6}{2}$ | (b) $\frac{9x+6}{3}$ | (c) $\frac{8a+10b}{2}$ | (d) $\frac{15m - 10n}{5}$ |
| (c) $\frac{8x-4y}{2}$ | (f) $\frac{ax+bx}{x}$ | (g) $\frac{x^2 - x}{x}$ | (h) $\frac{2x^2-4}{2}$ |
| (i) $\frac{12}{3x-9}$ | (i) $\frac{5x+10}{15}$ | (k) $\frac{2x+4y+6z}{4x-6y+2z}$ | (1) $\frac{-2x-4}{-6x-4}$ |
| (m) $\frac{2x}{6x-4}$ | (n) $\frac{3x}{6x^2-3}$ | (o) $\frac{3x}{6x^2 - 3x}$ | (p) $\frac{2x-1}{6x^2-3x}$ |
| (q) $\frac{3m-6}{2m-4}$ | (r) $\frac{m^2 + 3m}{3m + 9}$ | (s) $\frac{x^2-3x}{x^2+2x}$ | (1) $\frac{5x-10}{6-3x}$ |
| 2) Simplify full | y : | | |
| (a) $\frac{x^2+3x}{x^2+4x+3}$ | (b) $\frac{x^2 + 3x}{x^2 + 4x}$ | $\frac{c+2}{c+3}$ (c) | $\frac{x^2-2x}{x^2+x-6}$ |
| (d) $\frac{x^2 - x - 20}{x^2 + 7x + 12}$ | (e) $\frac{x^2 - 4x}{x^2 - 5x}$ | $\frac{c+4}{c+6} \tag{f}$ | $\frac{x^2 - 5x}{x^2 + 4x}$ |
| (g) $\frac{x^2-1}{x+1}$ | (h) $\frac{x-2}{x^2-4}$ | (i) | $\frac{x^2-2x-3}{2x-6}$ |
| (j) $\frac{2x^2 - 2x - 12}{2x^2 - 18}$ | (k) $\frac{2x^2-7}{2x^2-5}$ | $\frac{3x-15}{5x-12}$ (1) | $\frac{6x^2 - 13x - 5}{9x^2 - 1}$ |
| | | | |
| | | | |
| | | | |

| | Answers |
|---|---|
| (d) $3m - 2n$ (g) $x - 1$ (i) $\frac{4}{x - 3}$ (l) $\frac{x + 2}{3x + 2}$ (o) $\frac{1}{2x - 1}$ | (a) $2d + 3$ (b) $3x + 2$ (c) $4a + 5$ (d) $3m - 2n$ (e) $4x - 2y$ (f) $a + b$ (g) $x - 1$ (h) $x^2 - 2$ (i) $\frac{4}{x - 3}$ (j) $\frac{x + 2}{3}$ (k) $\frac{x + 2y + 2}{2x - 3y + 2}$ (l) $\frac{x + 2}{3x + 2}$ (m) $\frac{x}{3x - 2}$ (n) $\frac{x}{2x^2 - 1}$ (o) $\frac{1}{2x - 1}$ (p) $\frac{1}{3x}$ (q) $\frac{3}{2}$ (r) $\frac{m}{3}$ (s) $\frac{x - 3}{x + 2}$ (t) $-\frac{5}{3}$ |
| (d) $\frac{x-5}{x+3}$ (g) $x-1$ | (a) $\frac{x}{x+1}$ (b) $\frac{x+2}{x+3}$ (c) $\frac{x}{x+3}$ (d) $\frac{x-5}{x+3}$ (e) $\frac{x-2}{x-3}$ (f) $\frac{x-5}{x+4}$ (g) $x-1$ (h) $\frac{1}{x+2}$ (i) $\frac{x+1}{2}$ (j) $\frac{x+2}{x+3}$ (k) $\frac{x-5}{x-4}$ (l) $\frac{2x-5}{3x-1}$ |