

## Algebraic Fractions – Answers

### Algebraic Fractions 1

$$1) \begin{array}{lll} \text{(a)} \frac{5x+13}{6} & \text{(b)} \frac{7x+7}{12} & \text{(c)} \frac{19x+1}{15} \\ \text{(d)} \frac{3x+4}{10} & \text{(e)} \frac{x+12}{6} & \text{(f)} \frac{14x+1}{12} \end{array}$$

$$2) \begin{array}{lll} \text{(a)} x = 6 & \text{(b)} x = 15 & \text{(c)} x = -19 \\ \text{(d)} x = 4 & \text{(e)} x = 7 & \text{(f)} x = -10 \\ \text{(g)} x = 5.6 & \text{(h)} x = 4 & \text{(i)} x = 7 \end{array}$$

### Algebraic Fractions 2

$$\begin{array}{llll} 1) \frac{11x}{15} & 2) \frac{7x}{12} & 3) \frac{x}{12} & 4) \frac{11x}{35} \\ 5) \frac{5x+3y}{xy} & 6) \frac{21y-8x}{6xy} & 7) \frac{5y+2}{xy} & 8) \frac{4x-3}{x^2} \\ 9) \frac{17}{3x} & 10) \frac{15+x^2}{5x} & 11) \frac{x^2+2y^2}{xy} & 12) \frac{x^2-2y}{xy^2} \end{array}$$

### Algebraic Fractions 3

$$\begin{array}{ll} 1) \frac{5(x+1)}{(x+3)(x-2)} & 2) \frac{x-1}{(x-4)(x-3)} \\ 3) \frac{5x+11}{(x+3)(x-2)(x+1)} & 4) \frac{3x+23}{x(x-3)(x+5)} \\ 5) \frac{x^2+2x-12}{x^2(x-1)(x-4)} & 6) \frac{3x(x-2)}{x^2(x+3)(x-1)} \\ 7) \frac{2x^2-5x+9}{(x+3)^2(x-4)^2} & 8) \frac{(x+5)}{(x-3)(x+2)(x-2)} \\ 9) \frac{5}{x+6} & 10) \frac{1}{x+2} \\ 11) \frac{4(2x-9)}{(x+2)(x-3)} & 12) \frac{1}{x-2} \end{array}$$