Past Papers Worksheet P2 Algebra IGCSE Mathematics 0580

(Solving Equations)



Solve the equations

(a) $9f + 11 = 3f + 23$ [2]

(b) $3(x + 4) = 2(4x - 1)$ [3]

(c) $\frac{x-2}{3} = 3$ [2]

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

(e) $\frac{3}{2x} + \frac{1}{x+1} = 0$ [3]

(f) $\frac{3}{x-1} - \frac{2}{x+3} = \frac{1}{x}$ [5]

(g) $3(y - 4) + \frac{y}{2} = 9$ [3]

(h) $(x - 7)(x + 4) = 0$ [1]

(i) $(y + 1)^2 = 4$ [2]

(j) $3x^2 - 7x - 20 = 0$ [3]

(k) $x^2 + 2x - 63 = 0$ [3]

(l) $10r^2 - 23r + 9 = 0$ [3]

(m) $\frac{5}{x} - \frac{8}{x+1} = 1$ [4]

(n) $\frac{15}{x} - \frac{20}{x+1} = 2$ [7]

(o) $\frac{2x+3}{x-4} + \frac{x+40}{x^2-16} = 2$ [5]

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ANSWERS:

a) 2 b) 2.8 c) 11 d) $2\frac{1}{3}$ e) –3/5 f) –1/3 g) 6 h) 7 & –4
i) 1 & –3 j) 4 & –5/3 k) 7 & –9 l) 9/5 & 1/2 m) –5 & 1 n) –5 & 3/2 o) –7

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