

(Solving Equations)



Solve the equations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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ANSWERS:

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