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Check your solutions against the solutions given on my website as you work!

Algebra Worksheet 4

Solve for the unknown value in each equation below. Perform a check for questions on the left.

a) $3(a - 4) = 15$

d) $2(4 - d) = 2d - 1$

b) $5(2 - 2b) = 18$

e) $2(e + 3) = 5(e - 1)$

c) $4(3 + 2c) = 11c$

f) $-2(f - 1) = 6(3 - f)$

$$\text{g) } 5g - 4 = 3(2 - 2g)$$

$$\text{j) } -2(j - 1) = 3j - 5$$

$$\text{h) } 5h + 1 = 3 - 3(h - 2)$$

$$\text{k) } 4k - 3 = 2(k - 1) + 4$$

$$\text{i) } i - 1 = 3(2i - 3)$$

$$\text{l) } -2L + 5 = -4(3 - L)$$

$$\text{m) } 4m - \frac{1}{3} = 3(m + 1)$$

$$\text{p) } 6\left(\frac{1}{3} + 3p\right) = 4p + 2$$

$$\text{n) } -4n + \frac{2}{5} = -3(4 - n)$$

$$\text{q) } \frac{2}{5} - 4q = 2\left(q + \frac{2}{3}\right)$$

$$\text{o) } 5 - 2Z = \frac{3}{4} + Z$$

$$\text{r) } -2r - 5 = \frac{2}{3} - 4r$$

$$\text{s)} \quad -4\left(s - \frac{1}{2}\right) = 5s - 7$$

$$\text{v)} \quad \frac{2}{3}v - 1 = -2(2v - 3)$$

$$\text{t)} \quad 3t - \frac{3}{4} = -4t + 1$$

$$\text{w)} \quad -\frac{1}{3}w - 3 = \frac{1}{3}(2w + 5)$$

$$\text{u)} \quad 2u - 2 = \frac{1}{2}u + 1$$

$$\text{x)} \quad -2(x - 5) = \frac{1}{5}x - 21$$