

Vypočítejte rovnici a proveďte zkoušku:

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

$$2a - 2 - 5 = 9 + 3a + a$$

$$2a - 7 = 9 + 4a$$

$$-16 = 2a$$

$$\underline{a = -8}$$

Zk: $2(-8 - 1) - 5 = -23$

$$3(3 + -8) + -8 = -23$$

$$L = P$$

b) $4b - 3(20 - b) = 6b - 7(11 - b) - 1$

$$4b - 60 + 3b = 6b - 77 + 7b - 1$$

$$7b - 60 = 13b - 78$$

$$18 = 6b$$

$$\underline{b = 3}$$

c) $1,2c + 13 - 0,9c + 0,5 = 16,7 - 0,1c$

$$12c + 130 - 9c + 5 = 167 - c$$

$$3c + 135 = 167 - c$$

$$2c = 32$$

$$\underline{c = 16}$$

d) $\frac{d-1}{3} = 9 - \frac{d+2}{2}$

$$2(d - 1) = 54 - 3(d + 2)$$

$$2d - 2 = 54 - 3d - 6$$

$$5d = 50$$

$$\underline{d = 10}$$

$$e) \frac{5e}{4} - \frac{e}{3} - 3 = \frac{e}{2} + \frac{1}{3}$$

$$15e - 4e - 36 = 6e + 4$$

$$11e - 36 = 6e + 4$$

$$5e = 40$$

$$\underline{e = 8}$$

$$f) \frac{5}{6}(f + 1) - \frac{2}{3}(2f - 1) = 2 - \frac{3}{4}(f - 1)$$

$$\frac{5}{6}f + \frac{5}{6} - \frac{4}{3}f + \frac{2}{3} = 2 - \frac{3}{4}f + \frac{3}{4}$$

$$10f + 10 - 16f + 8 = 24 - 9f + 9$$

$$18 - 6f = 33 - 9f$$

$$3f = 15$$

$$\underline{f = 5}$$

$$g) -5g - 19 = \frac{g+4}{g+4}$$

$$g \neq -4$$

$$-5g - 19 = 1$$

$$-5g = 20$$

$$\underline{g = -4}$$

Úloha nemá řešení.