

5.1. Rovnice – procvičování

Vyřeš rovnici a proved' zkoušku:

a) $8 + 5b + 12 - 4b = 4 + b + 18 - 3b$

b) $13 + 3c + 15c = 6 + 6c + 2c$

c) $2,3 + 4c + 5,8 = 9,2 + 5c + 4,9 - 6c$

d) $5c + 7c + 9 = 10c + 12 + 6c$

e) $3,4b + 7,2 + 1,3b + 14 = 5,6 - 2,7b + 7,6 - 2,6b$

f) $9c + 3c + 8 = 12 + 2c + 9$

g) $b + 8 + 2b = 5 + 10b + 6 - 2b$

h) $33c + 6 + 15c + 15 = 33 + 52c - 10 - 11c$

$$4(u - 3) + 5(u - 7) = 2(u + 8)$$

$$5(2v - 1) - 3(v + 1) = 4(v - 6) + 5(v + 2)$$

$$6(x + 1) - 4(2x + 3) = 7(x - 1) + 5(9 - x)$$

$$2(3 + y) - 5(3 - y) = 2(y + 4) - 3(5 - 2y)$$

$$9(2z + 7) - 7(z + 3) = 8(7 - 3z) - 2(6z + 7)$$

Vypočítejte:

a) $\frac{3t}{5} = \frac{1}{2}$

b) $-\frac{9}{14} = \frac{5z}{7}$

c) $\frac{7u}{4} = 2\frac{1}{3}$

d) $\frac{1,2z}{2} = 3,6$

e) $\frac{5a}{6} - \frac{a}{4} = -7$

f) $\frac{v}{2} + \frac{v}{3} = 12$

g) $\frac{7x}{8} - \frac{4x}{5} = 3$

h) $\frac{3x}{4} - 5,6 = \frac{2x}{5}$

i) $4\frac{1}{3} = \frac{5z}{12} - \frac{3z}{8}$

j) $\frac{2x}{3} - \frac{8}{15} = 4 + \frac{4x}{5}$

k) $\frac{v}{2} - \frac{v}{3} + \frac{v}{4} = 3\frac{1}{3}$

Řešte rovnice, provedte zkoušku:

a) $\frac{u}{3} + 1 = u - 2$

b) $\frac{5z}{8} - \frac{z}{2} - 1 = \frac{3z}{8} + 2$

c) $13 + \frac{4}{9}t = t + 8$

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

Vyřeš rovnici a proved' zkoušku:

a) $\frac{5e+1}{2} - \frac{4e+1}{6} = \frac{e+1}{6}$

b) $\frac{2f-13}{5} - \frac{f-6}{6} = \frac{f-4}{15}$

c) $\frac{1-h}{3} - \frac{2+h}{2} = \frac{3h+4}{6}$

d) $\frac{7-3m}{8} + \frac{m}{4} - \frac{3m-8}{2} = 0$

e) $\frac{2n-1}{4} - \frac{2n+1}{6} + \frac{2n-3}{3} = \frac{3n-5}{4}$

f) $\frac{3(6+o)}{8} + \frac{2(o+5)}{3} - \frac{1-o}{6} = \frac{3-o}{12}$

g) $\frac{p-1}{9} - \frac{2p-9}{2} + \frac{7-p}{3} = \frac{2p+1}{18}$

h) $\frac{9+q}{3} + \frac{15+2q}{4} - \frac{8+q}{12} = \frac{q+12}{6}$