

PRO ŽÁKY, KTEŘÍ NEDĚLAJÍ PŘIJÍMACÍ ZKOUŠKY

OPIŠ DO SEŠITU (NEBO VYTISKNI) A VYPOČÍTEJ:

1) Zjednoduš:

$$a) (3c + 7) + (10c - 5) =$$

$$b) 3a - 2b + 5 + (20a - 10) =$$

$$c) (-h^2 + 2) + (-h^2 - 4) =$$

$$d) (4ab + 3c - 4) + (-7ab + 7c - 8) =$$

$$e) 10k - 9m + (+8m - 7k) =$$

$$f) (a^2 + b^2 + 2c) + (3a^2 - b^2 + 2c) =$$

$$g) + (-3r + 12t) + (-6r + 3t^2) =$$

$$h) x^2 - y^2 + 10 + (+2x^2 - 10y^2 - 21) =$$

$$i) \frac{1}{3}a + \frac{1}{4}b + \left(\frac{1}{2}a - \frac{1}{6}b\right) =$$

$$j) 0,2x^2 + \frac{3}{4}y^2 - 2 + \left(\frac{3}{5}x^2 + \frac{1}{8}y^2 + \frac{3}{7}\right) =$$

$$k) \left(\frac{1}{7}b - \frac{3}{8}a - \frac{2}{3}\right) + \left(\frac{1}{6}a - \frac{2}{3}b + \frac{7}{3}\right) =$$

$$l) + \left(\frac{2}{9}d - \frac{1}{10}e\right) + \left(\frac{1}{6}d - \frac{1}{3}e + 1\frac{1}{5}\right) =$$

2) Zjednoduš:

$$a) (8m + 14) - (-10m - 15) =$$

$$b) 3k - 7l + 5 - (20k - 10) =$$

$$c) 3gh - 15 - (-gh - 4) =$$

$$d) -(7c - 14) - (9c + 12) =$$

$$e) 20 - 12m - (-23 - 7m) =$$

$$f) -3d - (-2f) - (4d + 5f) =$$

$$g) -(a + b + 3) - (2a - 4b - 14) =$$

$$h) 5 - (-a^2) + (-2b^2) - (a^2 - b^2 + 3) =$$

$$i) \frac{2}{3}u + \frac{1}{4}w - \left(-\frac{1}{3}u + \frac{3}{4}w\right) =$$

$$j) -\frac{1}{5}r - \left(\frac{2}{5}r + \frac{5}{6}s\right) + \frac{5}{6}r =$$

$$k) -\left(0,4t + \frac{1}{2}t^2\right) - \left(\frac{3}{10}t - 0,25t^2\right) =$$

$$l) -\left(-1\frac{1}{2}a\right) - \left(\frac{5}{2}a + \frac{1}{4}\right) - \left(-\frac{2}{3}\right) =$$

ŘEŠENÍ – PROVEĎ KONTROLU

1) Zjednoduš:

$$a) (3c + 7) + (10c - 5) = 13c + 2$$

$$b) 3a - 2b + 5 + (20a - 10) = 23a - 2b - 5$$

$$c) (-h^2 + 2) + (-h^2 - 4) = -2h^2 - 2$$

$$d) (4ab + 3c - 4) + (-7ab + 7c - 8) = -3ab + 10c - 12$$

$$e) 10k - 9m + (+8m - 7k) = 3k - m$$

$$f) (a^2 + b^2 + 2c) + (3a^2 - b^2 + 2c) = 4a^2 + 4c$$

$$g) + (-3r + 12t) + (-6r + 3t^2) = 3t^2 - 9r + 12t$$

$$h) x^2 - y^2 + 10 + (+2x^2 - 10y^2 - 21) = 3x^2 - 11y^2 - 11$$

$$i) \frac{1}{3}a + \frac{1}{4}b + \left(\frac{1}{2}a - \frac{1}{6}b\right) = \frac{5}{6}a + \frac{1}{12}b$$

$$j) 0,2x^2 + \frac{3}{4}y^2 - 2 + \left(\frac{3}{5}x^2 + \frac{1}{8}y^2 + \frac{3}{7}\right) = \frac{4}{5}x^2 + \frac{7}{8}y^2 - 1\frac{4}{7}$$

$$k) \left(\frac{1}{7}b - \frac{3}{8}a - \frac{2}{3}\right) + \left(\frac{1}{6}a - \frac{2}{3}b + \frac{7}{3}\right) = -\frac{5}{24}a - \frac{11}{21}b + \frac{5}{3}$$

$$l) + \left(\frac{2}{9}d - \frac{1}{10}e\right) + \left(\frac{1}{6}d - \frac{1}{3}e + 1\frac{1}{5}\right) = \frac{7}{18}d - \frac{13}{30}e + 1\frac{1}{5}$$

2) Zjednoduř:

$$a) (8m + 14) - (-10m - 15) = 18m + 29$$

$$b) 3k - 7l + 5 - (20k - 10) = -17k - 7l + 15$$

$$c) 3gh - 15 - (-gh - 4) = 4gh - 11$$

$$d) -(7c - 14) - (9c + 12) = -16c + 2$$

$$e) 20 - 12m - (-23 - 7m) = -5m + 43$$

$$f) -3d - (-2f) - (4d + 5f) = -7d - 3f$$

$$g) -(a + b + 3) - (2a - 4b - 14) = -3a + 3b + 11$$

$$h) 5 - (-a^2) + (-2b^2) - (a^2 - b^2 + 3) = -b^2 + 2$$

$$i) \frac{2}{3}u + \frac{1}{4}w - \left(-\frac{1}{3}u + \frac{3}{4}w\right) = u - \frac{1}{2}w$$

$$j) -\frac{1}{5}r - \left(\frac{2}{5}r + \frac{5}{6}s\right) + \frac{5}{6}r = \frac{7}{30}r - \frac{5}{6}s$$

$$k) -\left(0,4t + \frac{1}{2}t^2\right) - \left(\frac{3}{10}t - 0,25t^2\right) = -0,7t - 0,75t^2$$

$$l) -\left(-1\frac{1}{2}a\right) - \left(\frac{5}{2}a + \frac{1}{4}\right) - \left(-\frac{2}{3}\right) = -a + \frac{5}{12}$$