Urči hodnotu daných výrazů:

a) $x - 5$ (pro $x = -3$)

b) $4 + 7a$ (pro $a = 2$)

c) $y^2 - 4$ (pro $y = 7$)

d) $2a + b$ (pro $a = 4$, $b = -1$)

e) $-2x.y$ (pro $x = 5$, $y = 0$)

VÝRAZY
-sčítání, odčítání

$20-18$

$-6+4+8-10+3-2+5=-18+20=\underline{\underline{2}}$

$-2a+4a-1a+2a=-3a+6a=\underline{\underline{3a}}$

$-2\bigcirc+4\bigcirc-\bigcirc+2\bigcirc=3\bigcirc$

$4x\cancel{-2x}+x\cancel{+2x}-5x=\underline{\underline{0}}$

$12b^2+3b^2-10b^2+b^2=\underline{\underline{6b^2}}$

$16b^2-10b^2$

$3t + 2t - 1t = 4t$

$t = 1t$

$4a - a + b - 3a + 5b - 4b = 0 + 2b = 2b$

$2x - 4 - 9x - 8 + x = -6x - 12$

$2x - 9x + x - 4 - 8$

$y - 1 + 2 - 2y + 4y - 5 = 3y - 4$

$y - 2y + 4y - 1 + 2 - 5$

$-6m + 2 - 9m - 1 + 5m - 7 = -6m - 9m + 5m + 2 - 1 - 7 = -10m - 6$

$3a - 5b + 6c - 2a - 4c - 7b = 1a - 12b + 2c$

$6x^2 + 3xy - 1 - 3x^2 + 2xy - 4y^2 + 5 = 3x^2 + 5xy - 4y^2 + 4$

$6x^2 - 3x^2 + 3xy + 2xy - 1 + 5 - 4y^2$

$19cd + 8cd - 7cd + 11cd - cd =$ $30cd$

$3x + 9 + 2x - 5 =$ $5x + 4$

$8a - 9b + 11 - 10a + 8b - 13 =$ $-2a - b - 2$

$7a^2 - 40 + 3b^2 - 1 + 3a^2 + a - b^2 + 5 =$ $10a^2 + a + 2b^2 - 36$

$10a - 5b^2 + 4 - 3a + 2b^2 - 6 =$ $7a - 3b^2 - 2$

$-5a^2 - 15a + 25 + 6a^2 + 15 + 9a =$

$5x - 2x + 4 - 5x + 2x - 4 =$

$6a - 5b - 0{,}5 + 6{,}9 + a - b =$

$9u - 7v - 13 + 6v - 3u + 17 =$

$-(x - 5y + 1) = -x + 5y - 1$

$+(x - 5y + 1) = x - 5y + 1$

znaménko MÍNUS před závorkou MĚNÍ VŠECHNA ZNAMÉNKA v závorce !!!

$(5a^2 - ab + b^2) + (3a^2 + 2ab - 3b^2) = 5a^2 - ab + b^2 + 3a^2 + 2ab - 3b^2 = 8a^2 + ab - 2b^2$

$(5a^2 - ab + b^2) - (3a^2 + 2ab - 3b^2) = 5a^2 - ab + b^2 - 3a^2 - 2ab + 3b^2 = 2a^2 - 3ab + 4b^2$

$-(5a^2 - ab + b^2) + (3a^2 + 2ab - 3b^2) = -5a^2 + ab - b^2 + 3a^2 + 2ab - 3b^2 = -2a^2 + 3ab - 4b^2$

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

$= -5a^2 + ab - b^2 - 3a^2 - 2ab + 3b^2 =$

$= -8a^2 - ab + 2b^2$

Zjednoduš:

a) $2x - 5x =$

b) $-3a + 2a - a =$

c) $7x^2 + 2x^2 - 3x^2 - 3x^2 =$

d) $-4ab + ab + 8ab - 2ab =$

e) $9m - 3m + 2m - 6m - 2m =$

a) $-3x$; b) $-2a$; c) $3x^2$; d) $3ab$; e) 0

$m^2 + 2 - 4m + 5m^3 - 3m^2 + 6m =$

$-3r^3 - 4r + 7r^2 + 11r - 7r^2 - 4r^3 - 9r =$

$6n^3 - 8 + 2m^4 - 3m^2 + m - 7 + 4m^2 + 5 =$

$15 - k + 3k^2 - 6{,}6 - 5k^2 + 3{,}3 + 4k^2 + 7k =$

$5m^3-2m^2+2m+2$; $-7r^3-2r$; $2m^4+m^2+m+6n^3-10$; $2k^2+6k+11{,}7$

$3x + 2y - 5x + y =$

$-4a - 3b + 5b + 7a =$

$6x^2 - 2x + 3 - 4x^2 + x - 1 =$

$5x - 2y + 4 - 5x + 2y - 4 =$

$7a^2 - 40 + 3b^2 - 1 + 3a^2 + a - b^2 + 5 =$

$-2x + 3y$; $3a + 2b$; $2x^2 - x + 2$; 0 ; $10a^2 + a + 2b^2 - 36$

$9a - (5a + 6) =$

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

$(8a - 9b - 12) - (3a - 4b + 7) =$

$(2a - 3) + (4a + 9) - (5a + 7) =$

$(5x - 3y) - (2x - 8y) + (-4x + y) =$

$-(3m + 2n) + 6m - (2n - 3) + 1 =$

$3 - (5x + 7y) - 11y - (8 - 12x - y) =$

4a-6 ; 3b+1 ; 5a-5b-19 ; a-1 ; -x+6y ; 3m-4n+4 ; 7x-17y-5

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

$(3x + 5) - (x - 1) =$

$(2a - 3) + (4a + 9) - (5a + 7) =$

$-(2y - 3) + y - (2y + 1) =$

$4 - (5x + 2) + 8x - (2x + 3) =$

$2a-2$; $2x+6$; $a-1$; $-3y+2$; $x-1$