МЕТОД ГРУППИРОВКИ

Урок№2

7Б класс

21.12.20

№480

1) $2a^3 - 3a^2 - 2ab + 3b =$

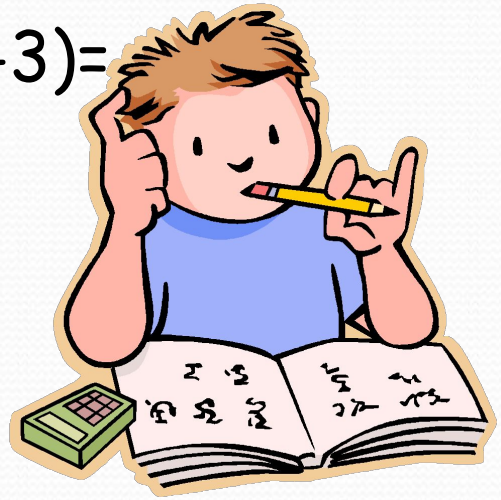
$= (2a^3 - 2ab) + (-3a^2 + 3b) =$

$= 2a(a^2 - b) - 3(a^2 - b) = (a^2 - b)(2a - 3)$

Если a = 0,5, b = 2,25, то

$(0,5^2 - 2,25)(2 \cdot 0,5 - 3) = (0,25 - 2,25)(1-3) =$

$= -2 \cdot (-2) = 4$



№480

2) $xy + y^2 - 12x - 12y = (xy + y^2) + (-12x - 12y) =$

$= y(x+y) - 12(x+y) = \underline{(x+y)(y-12)}$

Если $x = 10{,}8$, $y = -8{,}8$, то

$(10{,}8-8{,}8)(-8{,}8 - 12) = 2 \cdot (-20{,}8) = -41{,}6$

№484

1) $ax^2 + ay - bx^2 - by + cx^2 + cy =$

$= (ax^2 - bx^2 + cx^2) + (ay - by + cy) =$

$= x^2 (a - b + c) + y(a - b + c) =$

$= (a - b + c)(x^2 + y)$

№484(1) *второй способ*

$ax^2 + ay - bx^2 - by + cx^2 + cy =$

$= (ax^2 + ay) + (-bx^2 - by) + (cx^2 + cy) =$

$= a(x^2 + y) - b(x^2 + y) + c(x^2 + y) =$

$= (x^2 + y)(a - b + c)$

№484(2)

2) $a^2b+ a +ab^2 +b + 3ab +3 =$

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

$= a(ab +1) +b(ab +1) +3(ab+1)=$

$=(ab +1)(a +b +3)$

№484(4)

4) $m^2n + mn - 5 - 5m + n - 5m^2 =$

$= (m^2n + mn + n) + (-5 - 5m - 5m^2) =$

$= n(m^2 + m + 1) - 5(1 + m + m^2) =$

$= (m^2 + m + 1)(n - 5).$

ДОМАШНЕЕ ЗАДАНИЕ

- №481; 485.