

# МЕТОД ГРУППИРОВКИ



Урок№2

7Б класс

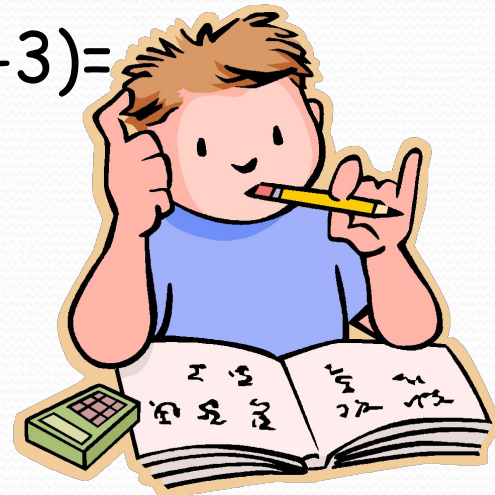
21.12.20

## №480

$$\begin{aligned} 1) \quad & \underline{2a^3} - 3a^2 - \underline{2ab} + 3b = \\ & = (2a^3 - 2ab) + (-3a^2 + 3b) = \\ & = 2a(a^2 - b) - 3(a^2 - b) = \underline{(a^2 - b)(2a - 3)} \end{aligned}$$

Если  $a = 0,5$ ,  $b = 2,25$ , то

$$\begin{aligned} & (0,5^2 - 2,25)(2 \cdot 0,5 - 3) = (0,25 - 2,25)(1 - 3) = \\ & = -2 \cdot (-2) = 4 \end{aligned}$$



## №480

$$\begin{aligned} 2) \quad xy + y^2 - 12x - 12y &= (xy + y^2) + (-12x - 12y) = \\ &= y(x+y) - 12(x+y) = \underline{(x+y)(y-12)} \end{aligned}$$

Если  $x = 10,8$ ,  $y = -8,8$ , то

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

## No484

$$\begin{aligned} 1) & ax^2 + ay - bx^2 - by + \underline{cx^2} + cy = \\ & = (ax^2 - bx^2 + cx^2) + (ay - by + cy) = \\ & = x^2 (a - b + c) + y(a - b + c) = \\ & = (a - b + c)(x^2 + y) \end{aligned}$$

## №484(1) *второй способ*

$$\begin{aligned} & ax^2 + ay - bx^2 - by + cx^2 + cy = \\ & = (ax^2 + ay) + (-bx^2 - by) + (cx^2 + cy) = \\ & = a(x^2 + y) - b(x^2 + y) + c(x^2 + y) = \\ & = (x^2 + y)(a - b + c) \end{aligned}$$

## №484(2)

$$\begin{aligned} 2) & a^2b + a + ab^2 + b + 3ab + 3 = \\ & = (a^2b + a) + (ab^2 + b) + (3ab + 3) = \\ & = a(ab + 1) + b(ab + 1) + 3(ab + 1) = \\ & = (ab + 1)(a + b + 3) \end{aligned}$$

## №484(4)

$$\begin{aligned} 4) & m^2n + mn - 5 - 5m + n - 5m^2 = \\ & = (m^2n + mn + n) + (-5 - 5m - 5m^2) = \\ & = n(m^2 + m + 1) - 5(1 + m + m^2) = \\ & = (m^2 + m + 1)(n - 5). \end{aligned}$$

# ДОМАШНЕЕ ЗАДАНИЕ

- №481; 485.

