

N 1

$$a) \underline{x^3y} - 5\underline{xy} + 6 - \underline{x^3y} - \underline{4xy} + \underline{x^2yx} - 5 = \underline{x^2yx} - 9xy + 1 = \underline{x^3y} - 9xy + 1$$

$$b) -x^4y^2 - xy^2 - 2 - yxy - (x^2y)^2 + (3x^2)^2 + 2 =$$

$$= -\underline{x^4y^2} - \underline{xy^2} - 2 - \underline{xy^2} - \underline{x^4y^2} + 9x^4 + 2 = -2x^4y^2 - 2xy^2 + 9x^4 =$$

$$= -x(2x^3y^2 + 2y^2 - 9x^3)$$

$$b) -5x^2 - xy + 2x + 1 + x - (-2x)^2 - xy + 3x - 1 = -5x^2 - \underline{xy} + 3x + 1 - 4x^2 - \underline{xy} + 3x - 1 = -9x^2 - 2xy + 6x = -x(9x + 2y - 6)$$

N 2.

$$a) \underline{x^2} - \underline{xy} + 3 - x^2yx + \underline{x^2} + 1 - \underline{xy} + 2 = 2x^2 - 2xy + 5 - x^3y$$

$$b) -4x^2 + (xy)^2 + 2 + yx^2y + (x^2y)^2 + (-2x)^2 - 2 = -4x^2 + \underline{x^2y^2} + 2 + 2x^2y^2 + \underline{x^4y^2} + 4x^2 - 2 = 2x^2y^2 + x^4y^2 = x^2(2y^2 + x^2y^2)$$

$$b) -9x^2 - 1 + x - ((-3x)^2 + 1) = -9x^2 - 1 + x - 9x^2 + 1 = -18x^2 + x = -x(18x + 1)$$

N 3.

сумма

$$a) \underline{xy^2} + 3\underline{xy} - 7 + \overset{(xy^2)}{\underline{yxy}} - \underline{xy} - 2 = 2xy^2 + 2xy - 9$$

$$b) 8(x^2y)^2 + (xy)^2 + 3 + 9x^4y^2 - (x^2y)^2 - x^2y^2 - 4 = 8x^4y^2 + \underline{x^2y^2} + 3 + 9x^4y^2 - \underline{x^4y^2} - \underline{x^2y^2} - 4 = 7x^4y^2 + 9x^4y^2 - 1$$

$$b) -8x^3 - x^2y - 1 + (-2x)^3 - 1 = -8x^3 - \underline{x^2y} - 1 - 8x^3 - 1 = -16x^3 - x^2y - 2$$

№ 3 разность:

$$a) \underline{xy^2} + \underline{3xy} - 7 - \overset{(xy^2)}{\underline{xy^2}} + \underline{xy} + 2 = 4xy - 5$$

$$b) 8(x^2y)^2 + (xy)^2 + 3 - 9x^4y^2 + (x^2y)^2 + x^2y^2 + 4 = \underline{8x^4y^2} + \underline{x^2y^2} + 3 - \underline{9x^4y^2} + \underline{x^4y^2} + \underline{x^2y^2} + 4 = 2x^2y^2 + 7$$

$$b) -8x^3 - x^2y - 1 - (-2x)^3 + 1 = \underline{-8x^3} - x^2y - \underline{1} + \underline{8x^3} + \underline{1} = -x^2y$$