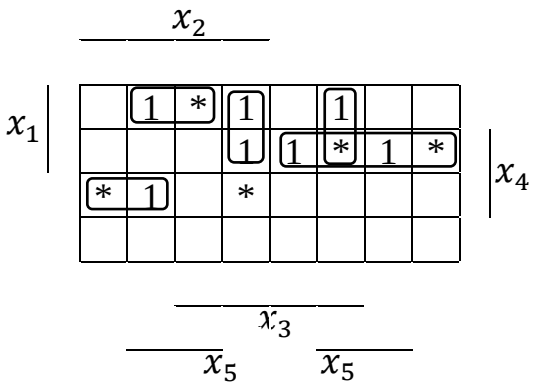
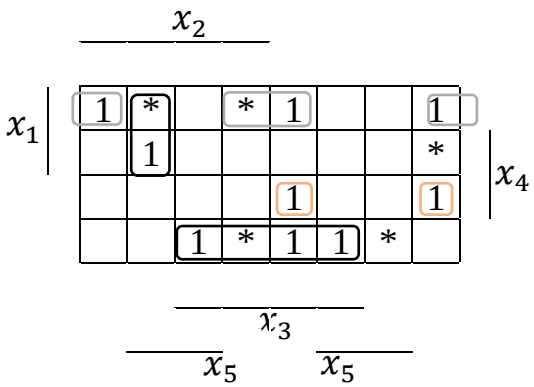
Задание № 1.

а)



$$f = \overline{x_1}x_2\overline{x_3}x_4 + x_1\overline{x_2}x_4 + x_1x_2\overline{x_4}x_5 + x_1x_2x_3\overline{x_5} + x_1\overline{x_2}x_3x_5$$

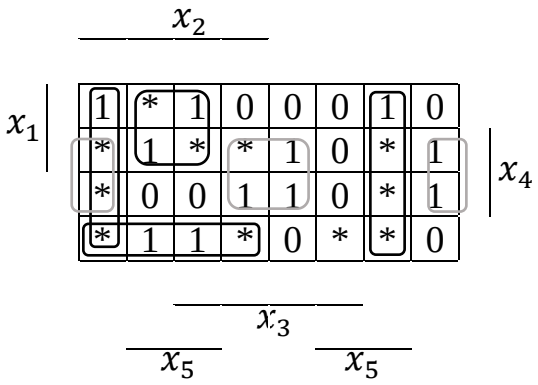
б)



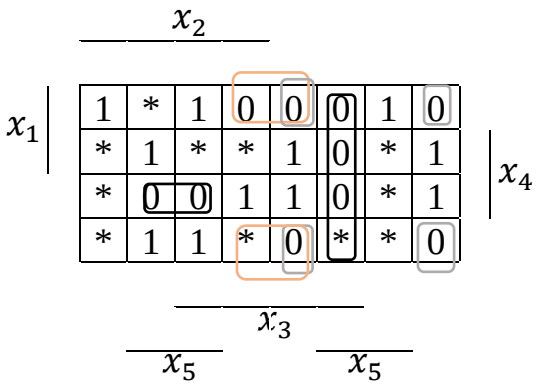
$$f = \overline{x_1}x_3\overline{x_4} + \overline{x_1}\overline{x_2}x_4\overline{x_5} + x_1x_2\overline{x_3}x_5 + x_1\overline{x_4}x_5$$

Задание № 2.

б)

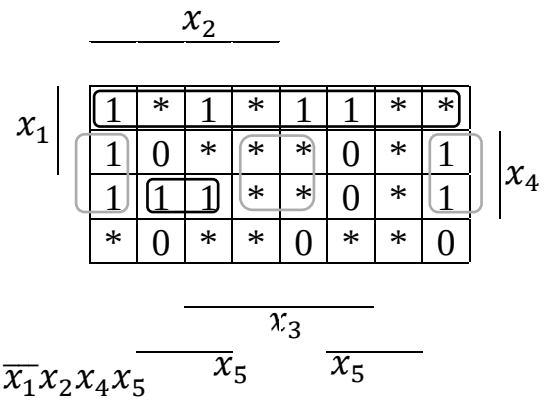


$$f_{\text{днф}} = x_4\overline{x_5} + \overline{x_1}x_2\overline{x_4} + x_2\overline{x_3x_5} + x_1x_2x_5 + \overline{x_2x_3}x_5$$

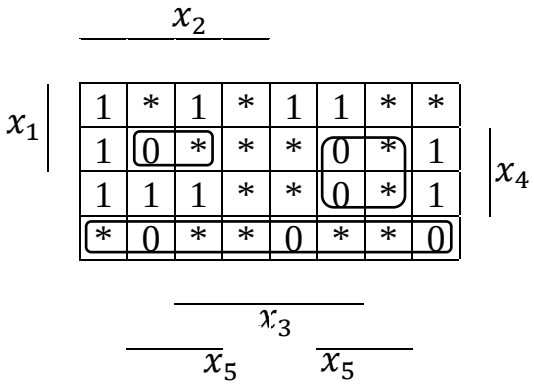


$$f_{\text{кнф}} = x_3\overline{x_4x_5} + \overline{x_2x_4x_5} + \overline{x_2}x_3x_5 + +\overline{x_1}x_2x_4x_5$$

в)



$$f_{\text{днф}} = x_1\overline{x_4} + x_4\overline{x_5} + \overline{x_1}x_2x_4x_5$$



$$f_{\text{кнф}} = \overline{x_1 x_4} + x_1 x_2 x_4 x_5 + \overline{x_2} x_4 x_5$$