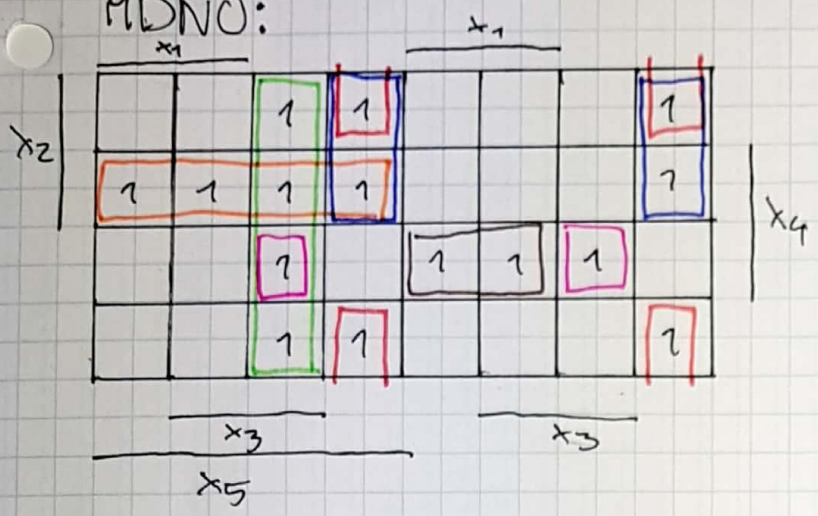
$f(x_1, x_2, x_3, x_4, x_5) = V^5(0,1,5,6,7,8,9,10,11,13,15,18,22,27,31)$

MDNO:



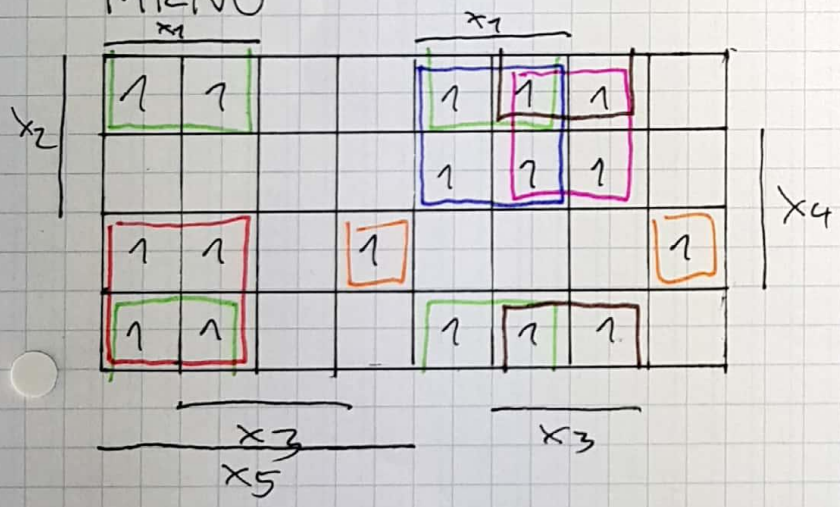

Skrajšana oblika:

$f(x_1, x_2, x_3, x_4) = \bar{x}_1 x_3 x_5 \vee \bar{x}_1 x_2 \bar{x}_3 \vee x_2 x_4 x_5 \vee$
$\vee \bar{x}_1 \bar{x}_3 \bar{x}_4 \vee x_1 \bar{x}_2 x_4 \bar{x}_5 \vee \bar{x}_1 \bar{x}_2 x_3 x_4$

$x_5$

7 vrat in 26 vhodov

MKNO




| | |
|---|---|
| MDNO | [7, 26] |
| MKNO | [7, 24] |

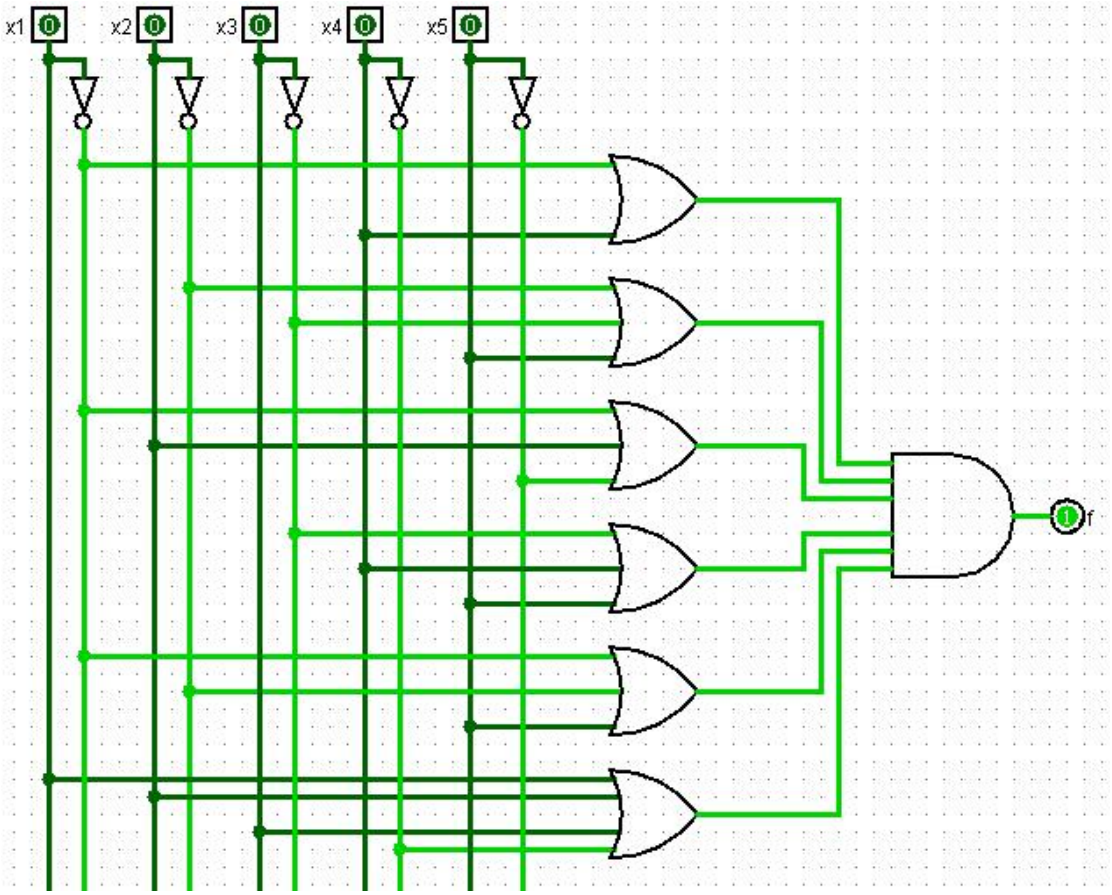
7 vrat in 24 vhodov

Skrajšana oblika:

$f(x_1, x_2, x_3, x_4, x_5) = x_1 \bar{x}_4 \vee x_2 x_3 \bar{x}_5 \vee x_1 \bar{x}_2 x_5 \vee x_3 \bar{x}_4 \bar{x}_5 \vee$
$\vee x_1 x_2 \bar{x}_5 \vee \bar{x}_1 \bar{x}_2 \bar{x}_3 x_4$

$f(x_1, x_2, x_3, x_4, x_5) = (\bar{x}_1 \vee x_4)(\bar{x}_2 \vee \bar{x}_3 \vee x_5)(\cancel{x_1 x_2 \bar{x}_5})(\bar{x}_1 \vee x_2 \vee \bar{x}_5) \cdot$
$\cdot (\bar{x}_3 \vee x_4 \vee x_5)(\bar{x}_1 \vee \bar{x}_2 \vee x_5)(x_1 \vee x_2 \vee x_3 \vee \bar{x}_4)$

- MNO je MKNO, saj ima enako ~~vhodov~~ vrat kot ~~MDNO~~ MDNO, vedat ima manj vhodov!




| x1 | x2 | x3 | x4 | x5 | f |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 | 1 |
| 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 0 | 1 | 1 | 1 | 1 |
| 0 | 1 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 | 1 | 1 |
| 0 | 1 | 1 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 1 | 1 |
| 0 | 1 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 1 | 0 |
| 1 | 0 | 0 | 1 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 1 | 0 |
| 1 | 0 | 1 | 1 | 0 | 1 |
| 1 | 0 | 1 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 | 0 | 0 |
| 1 | 1 | 0 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 | 0 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 |
| 1 | 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 |