



Индекс:	година			редни број		
Презиме и име:						
	1.	2.	3.	К		

**Основи рачунарске технике (19E111ОРТ),  
Основи рачунарске технике 1 (13C111ОРТ1)**  
- колоквијум -

1. [15]

**Минимизација прекидачких функција**

а)

	$x_1x_2$			
$x_3$	00	01	11	10
0				
1				

ДНФ:

б)

	$x_1x_2$			
$x_3x_4$	00	01	11	10
00				
01				
11				
10				

КНФ:

в)

	$x_2x_3$			
$x_4x_5$	00	01	11	10
00				
01				
11				
10				

$x_1 = 0$

	$x_2x_3$			
$x_4x_5$	00	01	11	10
00				
01				
11				
10				

$x_1 = 1$

ДНФ:

Комбинациона таблица:

$X_1$	$X_2$	$X_3$	$X_4$					
0	0	0	0					
0	0	0	1					
0	0	1	0					
0	0	1	1					
0	1	0	0					
0	1	0	1					
0	1	1	0					
0	1	1	1					

$X_1$	$X_2$	$X_3$	$X_4$					
1	0	0	0					
1	0	0	1					
1	0	1	0					
1	0	1	1					
1	1	0	0					
1	1	0	1					
1	1	1	0					
1	1	1	1					

Карноове карте:

$x_3x_4$	$x_1x_2$			
	00	01	11	10
00				
01				
11				
10				

$x_3x_4$	$x_1x_2$			
	00	01	11	10
00				
01				
11				
10				

$x_3x_4$	$x_1x_2$			
	00	01	11	10
00				
01				
11				
10				

Минималне прекидачке функције:

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Структурне шеме (И, ИЛИ):

An empty rectangular box with a thin black border, intended for drawing a structural scheme (И, ИЛИ).

Структурне шеме (НИ/НИЛИ):

An empty rectangular box with a thin black border, intended for drawing a structural scheme (НИ/НИЛИ).

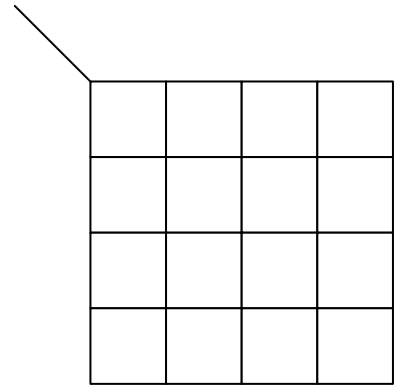
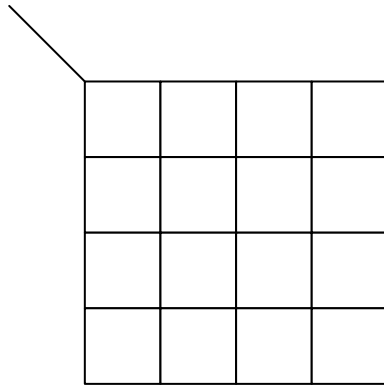
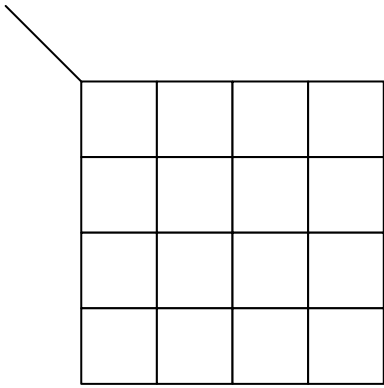
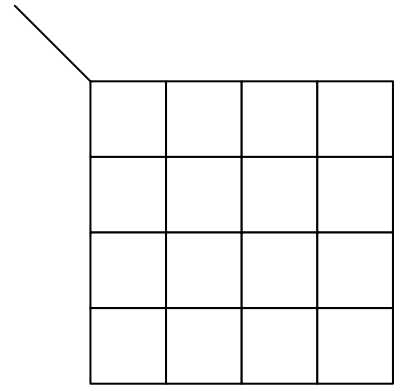
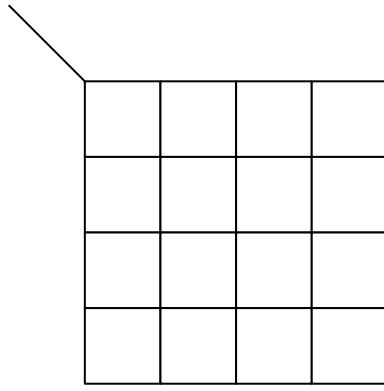
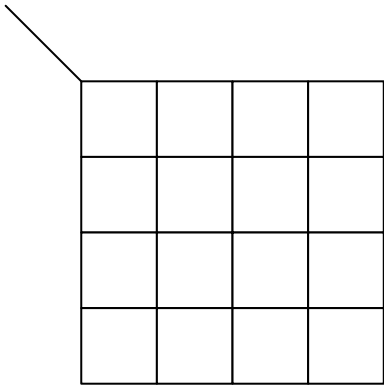
An empty rectangular box with a thin black border, intended for drawing a structural scheme (И, ИЛИ).

An empty rectangular box with a thin black border, intended for drawing a structural scheme (НИ/НИЛИ).

An empty rectangular box with a thin black border, intended for drawing a structural scheme (И, ИЛИ).

An empty rectangular box with a thin black border, intended for drawing a structural scheme (НИ/НИЛИ).





Структурна шема (И, ИЛИ):