

§ 7.3 2, 6, 22

2

	x_1, x_2	x_1, x_2'	x_1', x_2'	x_1', x_2
x_3	1			1
x_3'		1		

$$x_2 x_3 + x_1 x_2' x_3'$$

6

	x_1, x_2	x_1, x_2'	x_1', x_2'	x_1', x_2
$x_3 x_4$				
$x_3 x_4'$	1	1		1
$x_3' x_4'$	1			1
$x_3' x_4$				

$$x_2 x_4' + x_1 x_3 x_4'$$

$$(x_2 + x_1 x_3) x_4'$$

better!

But it said sum of products...

22.

	x_1	x_2	x_3	x_4	
4	1	1	1	1	1,2,3
	0	1	1	1	1,4
3	1	0	1	1	2,5
	1	1	0	1	2,6
2	0	1	0	1	4,6
	1	0	1	0	5

	x_1	x_2	x_3	x_4	
3	1	1	1	1	1
	1	1	1	1	
	1	1	1	1	
2	0	1	1	1	1
	1	0	1	1	
	1	1	0	1	

	x_1	x_2	x_3	x_4
	1	1	1	1

	1111	0111	1011	1101	0101	1010
1-11	✓		✓			
101-			✓			✓
-1-1	✓	✓		✓	✓	

not needed

$f(x_1, x_2, x_3, x_4) =$

$x_1 x_2' x_3 + x_2 x_4$

