

p 682, # 27

$x_1'x_2x_3x_4'$  etc.

Someone's got to cover this!

done

	1111	1110	1101	0110	1100	1001	0100	0001	0000
1-01			✓			✓			
-001						✓		✓	
0-00							✓		✓
000-								✓	✓
11--	✓	✓	✓		✓				
-1-0		✓		✓	✓		✓		

one clause you go.

	$x_1x_2$	$x_1x_2'$	$x_1'x_2'$	$x_1'x_2$
$x_3x_4$	11	10	00	01
$x_3x_4'$	1	1		1
$x_3'x_4'$	1		1	
$x_3'x_4$	1	1	1	

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

- $x_1x_2 +$
- $x_2x_4' +$
- $x_2'x_3'x_4 +$
- $x_1'x_2'x_3'$

The Karnaugh map was a heck of a lot easier!

# of ls	$x_1$	$x_2$	$x_3$	$x_4$	
4	1	1	1	1	1,2
3	1	1	1	0	1,3,4
3	1	1	0	1	2,5,6
2	0	1	1	0	3,7
2	1	1	0	0	4,5,8
1	1	0	0	1	6,9
1	0	1	0	0	7,8,10
1	0	0	0	1	9
0	0	0	0	0	11

# of ls	$x_1$	$x_2$	$x_3$	$x_4$	
3	1	1	1	-	1
2	1	1	-	1	1
2	-	1	1	0	2
2	1	1	-	0	1,2
1	1	-	0	1	*
1	0	1	-	0	2
1	-	1	0	0	2
0	-	0	0	1	*
0	0	-	0	0	*
0	0	0	0	-	*

# of ls	$x_1$	$x_2$	$x_3$	$x_4$
2	1	1	-	-
1	-	1	-	0

↑  
 dashes in the  
 wrong  
 places -  
 were  
 done.

we must match  
on dashes!

