



معلم التصحيح (المذاكرة الآتية دارات منطوية 2018-12-29)

حل السؤال الأول

Output functions in simplified sum of products form

$$(A > B) = \sum(4, 8, 9, 12, 13, 14)$$

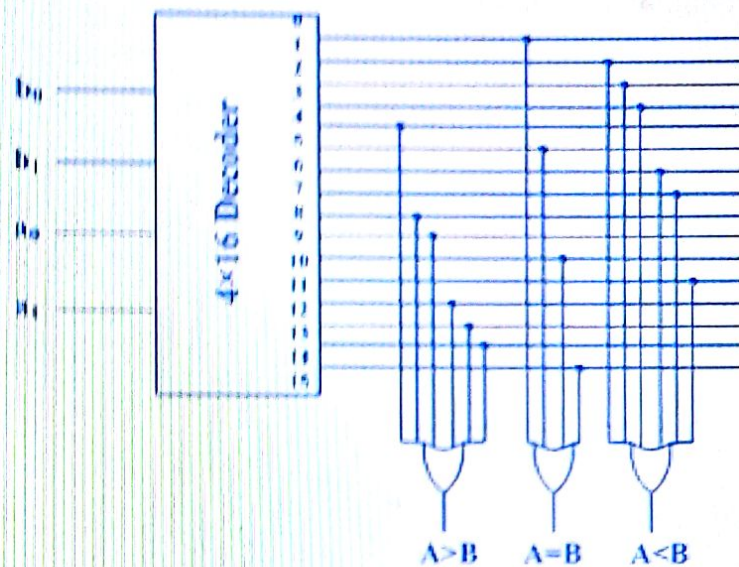
$$(A = B) = \sum(0, 5, 10, 15)$$

$$(A < B) = \sum(1, 2, 3, 6, 7, 11)$$

A	B	A>B	A=B	A<B
$a_1a_0$	$b_1b_0$			
00	00	0	1	0
00	01	0	0	1
00	10	0	0	1
00	11	0	0	1
01	00	1	0	0
01	01	0	1	0
01	10	0	0	1
01	11	0	0	1
10	00	1	0	0
10	01	1	0	0
10	10	0	1	0
10	11	0	0	1
11	00	1	0	0
11	01	1	0	0
11	10	1	0	0
11	11	0	1	0

Truth table

Comparator circuit implementation with 4x16 decoder



حل السؤال الثاني

