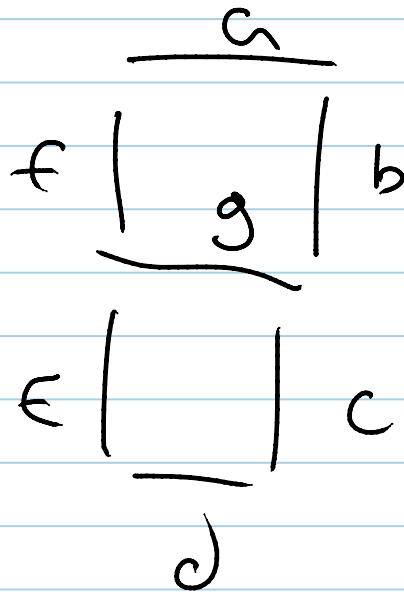


# 7 Segment Display

Wednesday, January 14, 2015

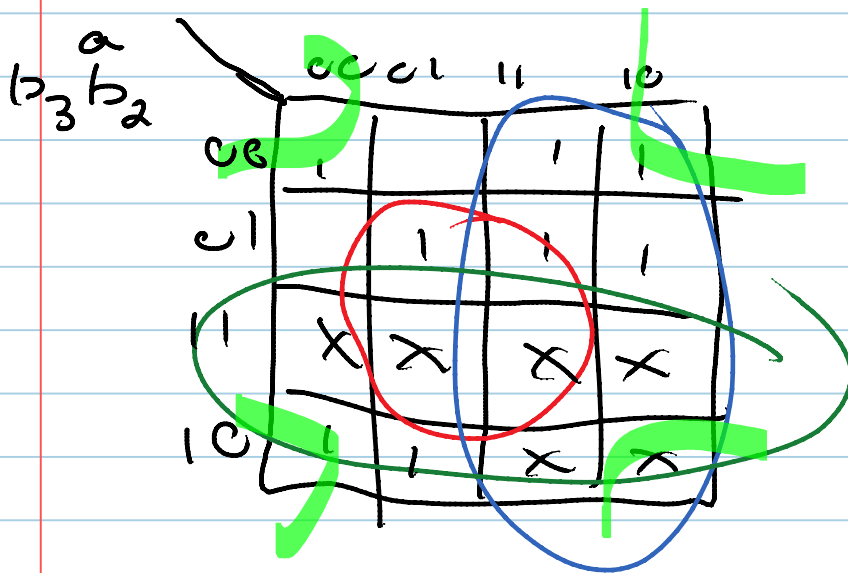
1:53 PM



BCD  $\rightarrow$  7 segment Decoder

	$b_3$	$b_2$	$b_1$	$b_0$	a	b	c	d	e	f	g	
0	0	0	0	0	1	1	1	1	1	1	0	□
1	0	0	0	1	0	1	1	0	0	0	0	┌
2	0	0	1	0	1	1	0	1	1	0	1	└┐
3	0	0	1	1	1	1	1	1	0	0	1	└┐┐
4	0	1	0	0	0	1	1	0	0	1	1	└┐┐┐
5	0	1	0	1	1	0	1	1	0	1	1	└┐┐┐┐
6	0	1	1	0	1	0	1	1	1	1	1	└┐┐┐┐┐
7	0	1	1	1	1	1	1	0	0	0	0	└┐┐┐┐┐┐
8	1	0	0	0	1	1	1	1	1	1	1	└┐┐┐┐┐┐┐
9	1	0	0	1	1	1	1	1	0	1	1	└┐┐┐┐┐┐┐┐

$b_1, b_0$



$$a = b_1 + b_3 + b_2 b_0 + b_2' b_0'$$

$$a = b_1 + b_3 + (b_2 \oplus b_0)$$