ELEC 311 | HW2

(1) a) $F = BC'D' + D'CB + C'AC$ → 0 complement (5D)

$F = BC'D' + D'CB$ Identity (1)

$F = BC'D' + BCD'$ commutative (6D)

$F = BD'(C' + C)$ Distributive (8)

complement (5)

$F = BD'$ Identity (1D)

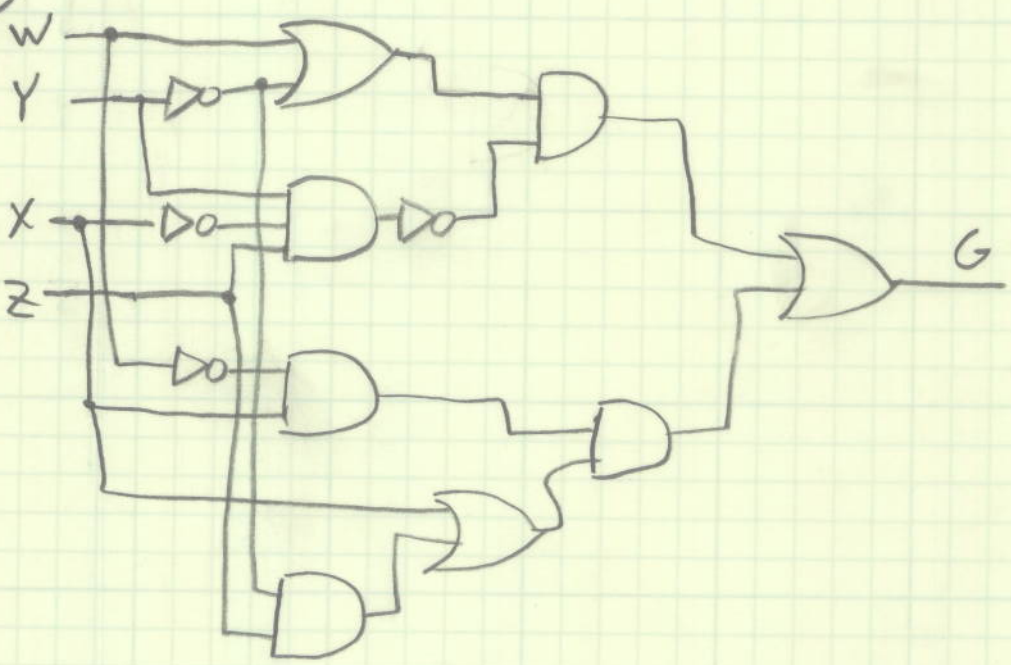
b) $F = BC'D' + BCD'$ same

$F = BD'$ Adjacency (10)

(2)

$$H = [(R \cdot S)' \cdot (S + T')] + (R \cdot S)$$

(3)



(4)

A	B	C	(A+C)	A·B	C'	(AB+C')	(A+C)·(AB+C')	AC'	AB+AC'
0	0	0	0	0	1	1	0	0	0
0	0	1	1	0	0	0	0	0	0
0	1	0	0	0	1	1	0	0	0
0	1	1	1	0	0	0	0	0	0
1	0	0	1	0	1	1	1	1	1
1	0	1	1	0	0	0	0	0	0
1	1	0	1	1	1	1	1	1	1
1	1	1	1	1	0	1	1	0	1