

① a) $F = BC'D' + D'CB + \cancel{C'AC} \xrightarrow{0} \text{complement (51)}$

$$F = BC'D' + D'CB$$

Identity (1)

$$F = BC'D' + BCD'$$

Commutative (60)

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

Distributive (8)

Complement (5)

$$\underline{\underline{F = BD'}}$$

Identity (10)

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

same

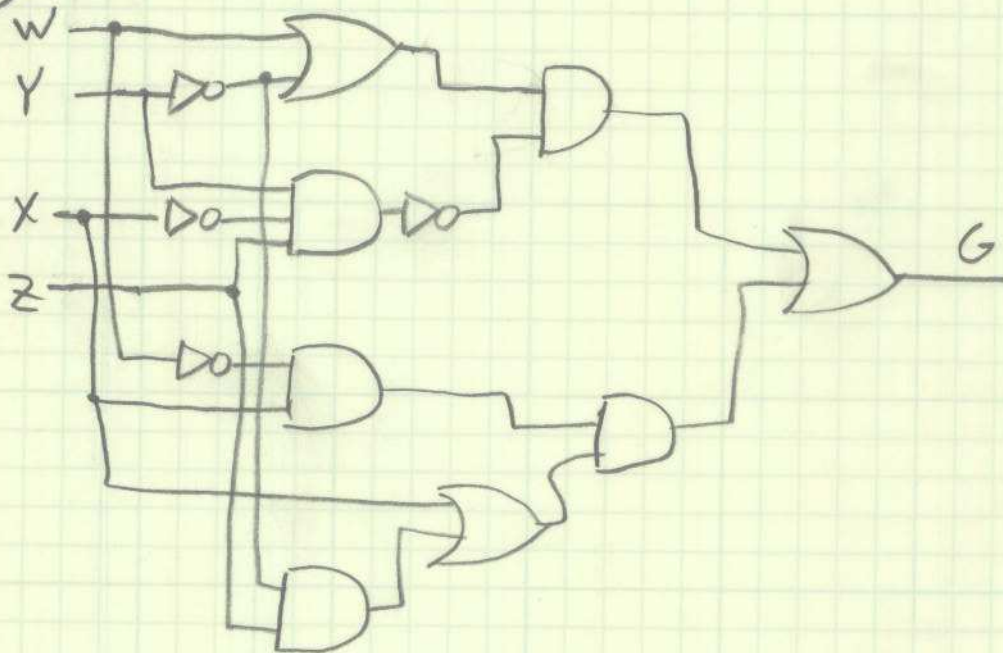
$$F = BD'$$

Adjacency (10)

②

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

③



(4)

A	B	C	$(A+C)$	$A \cdot B$	C'	$(AB+C')$	$\frac{(A+C) \cdot (AB+C')}{(AB+C')}$	AC'	$\frac{AB+AC'}{AC'}$
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