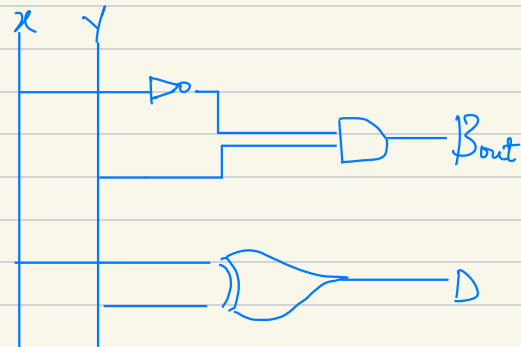


Lecture 09 Assignment

① $D = x \oplus y$ and $B_{out} = \bar{x} \wedge y$.

$$D = \bar{x}y + x\bar{y}$$

x	y	\bar{x}	\bar{y}	D	B_{out}
0	0	1	1	0	0
0	1	1	0	1	1
1	0	0	1	1	0
1	1	0	0	0	0



② $D = x \oplus y \oplus B_p$ and $B_{out} = (y \wedge \bar{x}) \vee (y \wedge B_p) \vee (B_p \wedge \bar{x})$
 $= (y \wedge \bar{x}) \vee (B_p \wedge (\bar{x} \vee y))$

x	y	B_p	\bar{x}	\bar{y}	\bar{B}_p	D	B_{out}
0	0	0	1	1	1	0	0
0	0	1	1	1	0	1	1
0	1	0	1	0	1	1	1
0	1	1	1	0	0	0	1
1	0	0	0	1	1	1	0
1	0	1	0	1	0	0	0
1	1	0	0	0	1	0	0
1	1	1	0	0	0	1	1

