## EE115B, Fall 2022, Homework 2 Solution



	Inpu	~ + 5!	Out put
A	B	CADB	Y
D	0	0 0	0
O	O	1 ) 0	1
0	(	0	1
0	1	1 / 1	0
	0	0   1	
1	O	1   1	0
1	Ţ	0 0	\ 0
1	1	1 0	1

$$Z$$
,  $AOB = \overline{AB+AB}$ 

$$=\overline{AB}\cdot\overline{AB}$$

$$=(\overline{A}+\overline{B})(\overline{A}+\overline{B})$$

$$=(A+B)(\overline{A}+\overline{B})$$

$$=AA+AB+\overline{A}B+BB$$