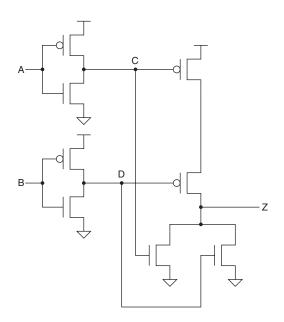
CS150 - Computer Organization and Architecture Homework #2 - Spring 2023

1. Fill in the truth table corresponding to the transistor-level circuit shown below.



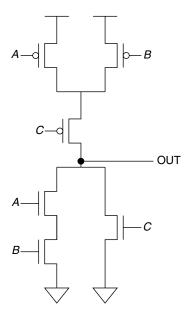
_ A	В	C	D	Z
0	0			
0	1			
1	0			
1	1			

2. Referring back to the transistor-level circuit shown in Problem 1, what is $\bf Z$ in terms of $\bf A$ and $\bf B$?

3. Fill in the truth table below:

A	В	NOT(NOT(A) OR NOT(B))
0	0	
0	1	
1	0	
1	1	

- **4.** Referring back to the truth table in Problem 3, what single logic gate has the same truth table?
- **5.** Fill in the truth table corresponding to the transistor-level circuit shown below.



A	В	C	OUT
0	0	0	
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	