

1. #1

	n-type	p-type
a. Gate = 1	closed circuit	open circuit
b. Gate = 0	open circuit	closed circuit
2. #2
 - a. 1
 - b. 0
 - c. 1
 - d. 0
 - e. 1
 - f. 0
 - g. 0
 - h. 0
3. #3
 - a. C
 - i. 1
 - ii. 1
 - iii. 0
 - iv. 0
 - b. D
 - i. 1
 - ii. 0
 - iii. 1
 - iv. 0
 - c. Z
 - i. 0
 - ii. 0
 - iii. 0
 - iv. 1
 - v. Z is only on if both C and D are off
4. #4
 - a. NOT(NOT(A) OR NOT(B))
 - i. 0
 - ii. 0
 - iii. 0
 - iv. 1
 - v. AND
5. #5
 - a. A NOR B
 - i. 1
 - ii. 0
 - iii. 0
 - iv. 0
6. #6
 - a. Z

- i. 0
- ii. 0
- iii. 0
- iv. 0
- v. 0
- vi. 0
- vii. 0
- viii. 0

7. #7

a. Sum

- i. 0
- ii. 1
- iii. 1
- iv. 0
- v. 0
- vi. 0
- vii. 1

b. Carry

- i. 0
- ii. 0
- iii. 0
- iv. 1
- v. 0
- vi. 1
- vii. 1
- viii. 1