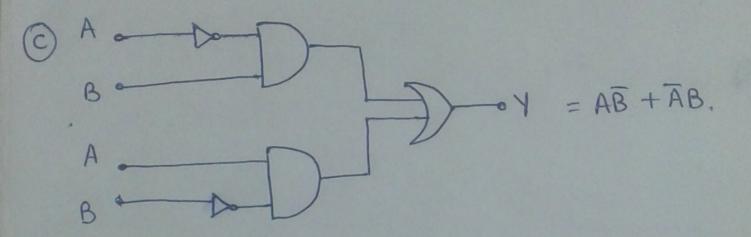
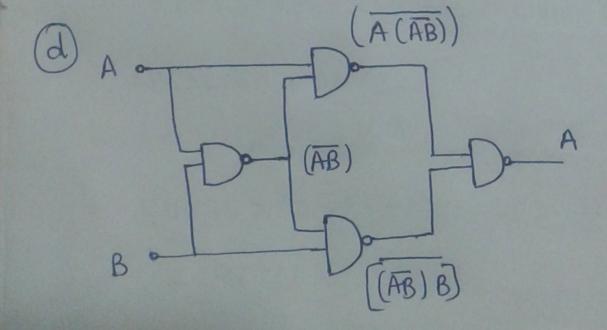
CF T wave 0 i 2 3 4 5 (ms) wave 2 AND gate OR gate NAND gate 1 2 3 4 5 + t(ms) NOR gate 012345 time EX-NOR gate EX-OR gade

BNOT, AND, OR





$$A+B+A.B$$

$$= A(1+B)+B$$

$$= A+B$$

$$= A+B$$

$$= A+B$$

$$\begin{bmatrix} A+\overline{A}.B = A+B \end{bmatrix}$$

$$\begin{bmatrix} 1+\overline{B} = 1 \end{bmatrix}$$

$$= B(A+\overline{A}) + \overline{A}.\overline{B} \qquad (A+\overline{A}=1)$$

$$= B+\overline{A}.\overline{B}$$

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

Q=4]

Input A=B=A, Y= A.B = A.A = A.

input A b) NOR: Y (output)

Y = A+B = A+A = A.