1- Encontre as expressões correspondentes aos circuitos a seguir

a) $\overline{A}.B$ $(\overline{A.B}).(\quad$ $((A\overline{B}).(+D)\circ E$

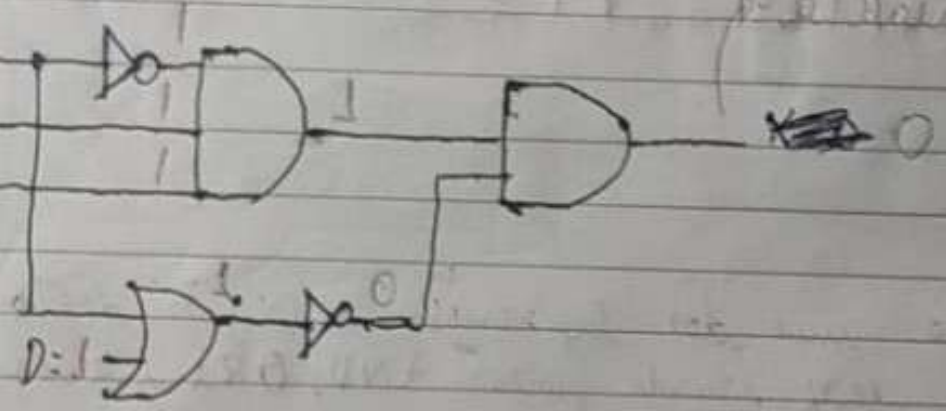
$S=((\overline{A+B}).(+D)\odot E$

b) $(\overline{D}+(+B+A).(D+\overline{C}.+B+\overline{A}).(\overline{D}+(+\overline{B}+\overline{A}).(D+\overline{C}+\overline{B}+\overline{A})$

c) $\overline{A}.B.C$, $A+D$, $(A\overline{+D})$

$S=(\overline{A}.B.C).(\overline{A+D})$

D) A=0
B=1
C=1
D=1



2- Circuito lógico e expressão booleana obtida a expressão de X.

A) $S=(A.B)+C$

B) $S=(A+B).C$

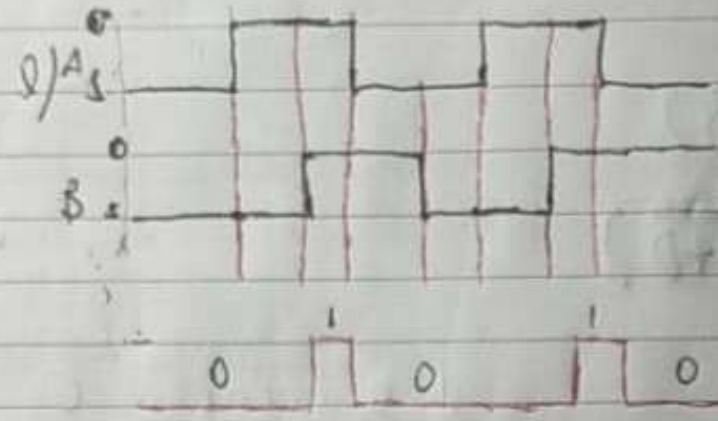
3- Circuitos lógicos e expressões resultantes. Obtenha a expressão de X:

a) $S = \overline{A} + B$

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

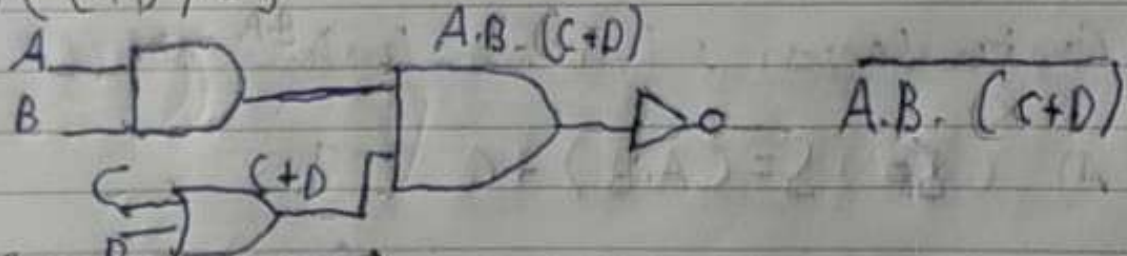
c) $(\overline{A}.B.C).(\overline{A+D})$

d) $(((\overline{(A+B)}.C)+D).E$

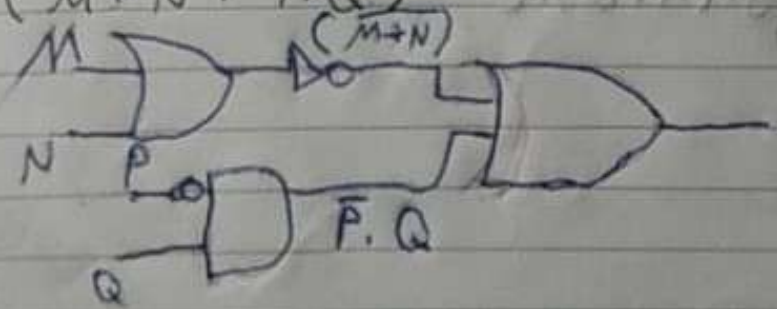


4- Para cada uma das expressões a seguir, desenhe o circuito lógico correspondente usando portas AND, OR e inversoras.

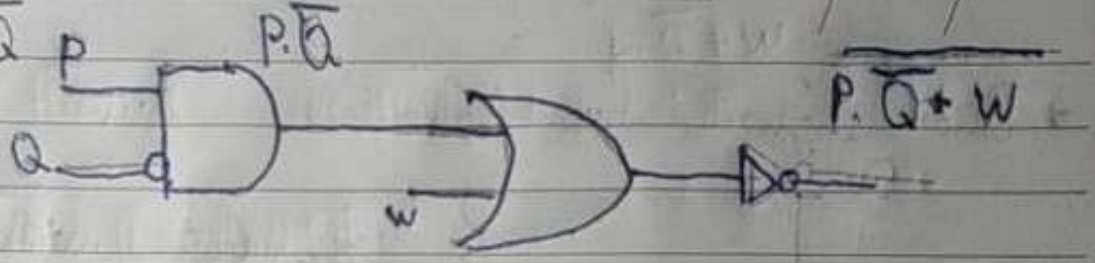
A) $\overline{A.B.(C+D)} = S$



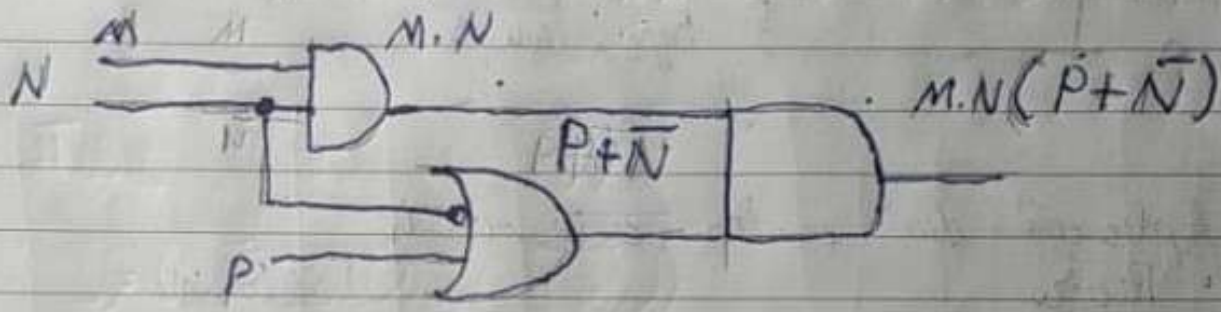
C) $S = (\overline{M+N} + \overline{P.Q})$



d) $S = \overline{W + P\bar{Q}}$



e) $X = M.N(P + \bar{N})$



f) $X = (A+B)(\bar{A}+\bar{B})$