

1) “Si estudio y practico, no voy a reprobar el examen”

P = Estudio

Q = Practico

R = Desapruebo

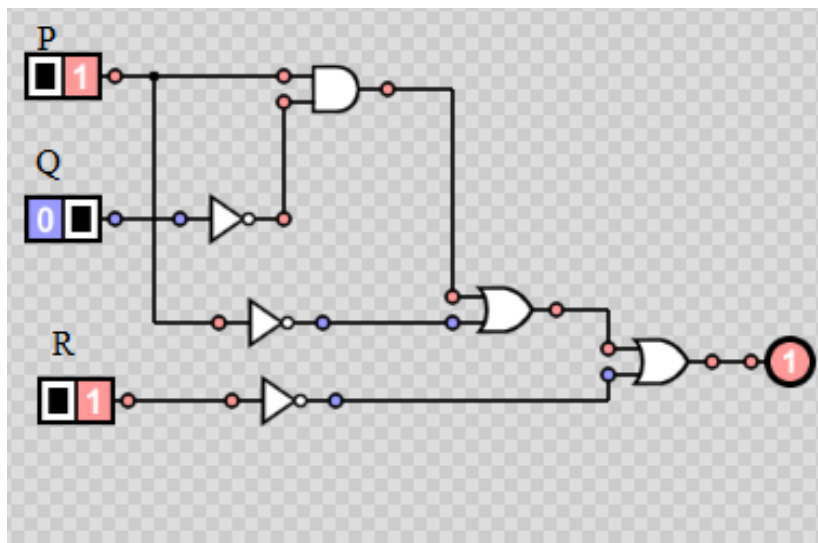
TABLA DE VERDAD: Implicación

P	Q	R	$\neg R$	$P \wedge Q$	$P \wedge Q \rightarrow \neg R$
0	0	0	1	0	1
0	0	1	0	0	1
0	1	0	1	0	1
0	1	1	0	0	1
1	0	0	1	0	1
1	0	1	0	0	1
1	1	0	1	1	1
1	1	1	0	1	0

$$(\neg P \neg Q \neg R) + (\neg P \neg Q R) + (\neg P Q \neg R) + (\neg P Q R) + (P \neg Q \neg R) + (P \neg Q R) + (P Q \neg R)$$

MAPA DE KARNAUGH	R		PQ
	0	1	
ROJO = $\neg R$	00	1	1
AZUL = $\neg P$	01	1	1
VERDE = $P \neg Q$	11	1	0
$\neg R + \neg P + P \neg Q$	10	1	1

CIRCUITO



$$2) (AB\bar{C}\bar{D}) + (A\bar{B}C\bar{D}) + (A\bar{B}\bar{C}D) + (\bar{A}BC\bar{D}) + (\bar{A}B\bar{C}D) + (\bar{A}\bar{B}CD)$$

AB \ CD	00	01	11	10
00			1	
01		1		1
11	1			
10		1		1

$$((AB)(C\downarrow D)) \oplus ((A\downarrow B)(CD)) \oplus ((A\oplus B)(C\oplus D))$$

