

IIUTPI : Electronica Digital

Ejercicios resueltos tablas de verdad

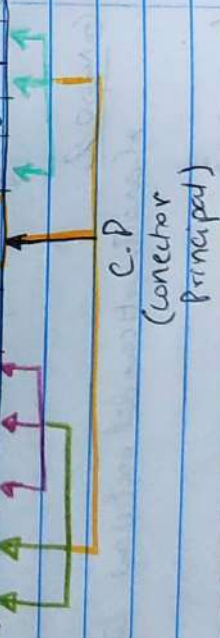
$$① [p \wedge (q \rightarrow r)] \rightarrow (np \vee nr)$$

$n = \text{numero de variables} = 3$

$2^n = 2^3 = 8 \text{ filas}$

sol

$[p \wedge (q \rightarrow r)] \rightarrow (np \vee nr)$			
1	0	1	0
1	1	1	0
1	1	0	1
1	1	0	1
0	0	1	0
0	0	1	0
0	0	1	0
0	0	1	0



Contingencia o indeterminación

OP $n = 4 \text{ variables}$
 $2^4 = 16 \text{ filas}$

$$② \{ (p \rightarrow q) \wedge [q \rightarrow (r \wedge ns)] \} \rightarrow [p \rightarrow (r \vee s)]$$

1	1	1	0	1	0	1	0	0	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	0	1	0	0	0	0	1	1	1	1	1	1	1
1	1	1	0	1	0	0	1	0	1	1	1	1	1	1	1
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1	0	0	0	1	1	1	0	1	1	1	1	1	1	1	1
1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1
1	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1
0	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1
0	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1
0	1	1	0	1	0	0	0	1	1	0	1	1	1	1	1
0	1	1	0	1	0	0	1	0	1	0	1	1	1	1	1
0	1	0	1	0	0	0	1	1	0	1	1	1	1	1	1
0	1	0	1	0	1	0	1	1	0	1	1	1	1	1	1
0	1	0	1	0	1	1	0	1	1	0	1	1	1	1	1
0	1	0	1	0	1	1	1	0	1	1	0	1	1	1	1
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0	1	0	1	0	1	1	1	1	1	0	1	1	0	1	1
0	1	0	1	0	1	1	1	1	1	1	0	1	1	0	1
0	1	0	1	0	1	1	1	1	1	1	1	0	1	0	1
0	1	0	1	0	1	1	1	1	1	1	1	1	0	0	1
0	1	0	1	0	1	1	1	1	1	1	1	1	1	0	0



PROPUESAS:

- a) $\{ (p \wedge q) \rightarrow r \wedge (p \wedge r) \} \rightarrow p \wedge q$
- b) $\{ (p \vee q) \rightarrow [r \wedge (p \wedge q)] \} \rightarrow nr$
- c) $\{ (p \vee q) \rightarrow [r \wedge (s \wedge nr)] \} \rightarrow (ns \rightarrow np)$