

Nombre y Apellidos:

Grupo 4º

1. Obtén la tabla de verdad de las siguientes funciones:

a)	$F = (A + B)C$	b)	$F = A + AB + AC + ABC$	c)	$F = (\bar{A} + \bar{B})(\bar{A} \cdot \bar{B})$
d)	$F = (\bar{A} + B)(A + \bar{B})$	e)	$F = (\bar{A} + \bar{B} \cdot A)(\bar{B} + \bar{A})$	f)	$F = \bar{A} \cdot B + A \cdot \bar{B}$

a) $F = (A + B)C$

a	b	c	a+b	F
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

b) $F = A + AB + AC + ABC$

a	b	c	a·b	a·c	a·b·c	F
0	0	0				
0	0	1				
0	1	0				
0	1	1				
1	0	0				
1	0	1				
1	1	0				
1	1	1				

c) $F = (\bar{A} + \bar{B})(\bar{A} \cdot \bar{B})$

a	b	$\bar{a} + \bar{b}$	$\bar{a} \cdot \bar{b}$	F
0	0			
0	1			
1	0			
1	1			

d) $F = (\bar{A} + B)(A + \bar{B})$

a	b	$\bar{a} + b$	$a + \bar{b}$	F
0	0			
0	1			
1	0			
1	1			

e) $F = (\bar{A} + \bar{B} \cdot A)(\overline{B + A})$

a	b	$\bar{b} \cdot a$	$a + \bar{b} \cdot a$	$\overline{b + a}$	F
0	0				
0	1				
1	0				
1	1				

f) $F = \bar{A}B + A\bar{B}$

a	b	$a \cdot b$	$a \cdot \bar{b}$	F
0	0			
0	1			
1	0			
1	1			