



**Soluciones:**

1.  
 $f_{\min} = \bar{a} \cdot \bar{b} \cdot \bar{c} + \bar{a} \cdot b \cdot \bar{c} + a \cdot \bar{b} \cdot \bar{c} + a \cdot \bar{b} \cdot c + a \cdot b \cdot \bar{c} + a \cdot b \cdot c$

$$f_{\max} = (a+b+c) \cdot (a+\bar{b}+\bar{c})$$

2.  $f_{\min} = a + \bar{b} \cdot c + b \cdot \bar{c} = a + b \oplus c$  (a+ XOR de b y c)

3.  $S = a + b$

4.  $S = \bar{a} \cdot b \cdot d + \bar{b} \cdot \bar{d}$

5.  $F = a \cdot b + (\bar{a} + b)$

6.  $S = abd + abc + bcd + acd$

7.  $S = R \cdot \bar{V} \cdot \bar{A} + RV + RA$

8.  $S = ab + ad + ac + abcd$

9. Sol:  $A \oplus B \oplus C$