a) $\overline{x+y} = \bar{x}\cdot\bar{y} \longrightarrow \overline{x+y+t} = \bar{x}\cdot\bar{y}\cdot\bar{z}$

$\overline{xy} = \bar{x}+\bar{y} \longrightarrow \overline{xyz} = \bar{x}+\bar{y}+\bar{z}$

$f = (A\bar{B}(C+D)) + ((C+\bar{D})(A+\bar{B})) = A\bar{B}C + A\bar{B}D + Ac + A\bar{D} + \bar{B}C + \bar{B}\bar{D}$

$= \overline{\bar{A}+B+\bar{C}} + \overline{\bar{A}+B+\bar{D}} + \overline{\bar{A}+\bar{C}} + \overline{\bar{A}+D} + \overline{B+\bar{C}} + \overline{B+D}$

Or (apuntando a $\bar{A}+B+\bar{C}$) — inversor (apuntando a $\bar{A}+B+\bar{D}$)

b) $f = A\bar{B}C + A\bar{B}D + Ac + A\bar{D} + \bar{B}C + \bar{B}\bar{D} = \sum_m(0,2,3,8,9,10,11,12,14$

$A\bar{B}C$: 101x → 10,11

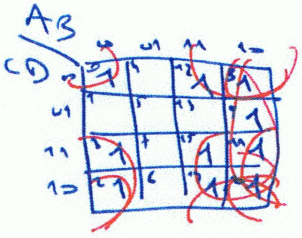
$A\bar{B}D$: 10x1 → 9,11

Ac: 1x1x → 10,11 14,15

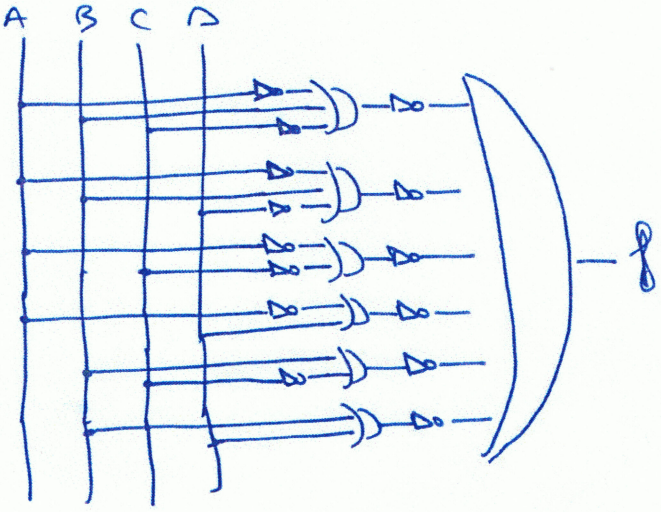
$A\bar{D}$: 1xx0 → 8,10 11,14

$\bar{B}C$: x01x → 2,3 10,11

$\bar{B}\bar{D}$: x0x0 → 0,2 8,10



$f = A\bar{B} + Ac + \bar{B}\bar{D} + A\bar{D} + C\bar{B}$



inversores y OR's de 2, 3 y 6 entradas