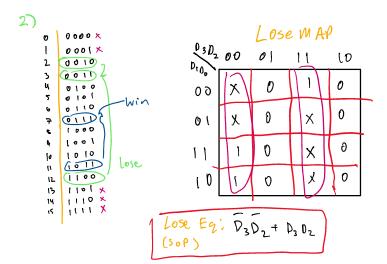
1) Prove the adsorption theorem:
$$A \cdot (\overline{A} + B) = A \cdot B$$

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

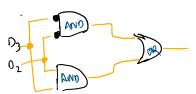
A
$$(\overline{A} + B)$$
 Given $A+(\overline{A} \cdot B)$
= $(A \cdot \overline{A})+(A \cdot B)$ Distributivity = $(A+\overline{A})\cdot(A+B)$
= $0 + A \cdot B$ (omplement = $1 \cdot (A+B)$
= $A \cdot B$ Identity = $A+B$



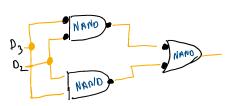
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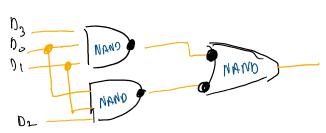
Win Eq: 0,0003+ p,n. N2

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Lose logic Pos form:

$$\overline{D_{3}} \overline{D_{2}} + \overline{D_{3}} \overline{D_{2}} = (\overline{D_{3}} \overline{D_{2}} + \overline{D_{3}}) (\overline{D_{3}} \overline{D_{2}} + \overline{D_{2}})$$

$$= ((\overline{D_{3}} + \overline{D_{3}}) (\overline{D_{2}} + \overline{D_{3}})) ((\overline{D_{3}} + \overline{D_{2}}) (\overline{D_{2}} + \overline{D_{2}})$$

$$= (\overline{D_{2}} + \overline{D_{3}}) (\overline{D_{3}} + \overline{D_{2}})$$

1 OSE MAP | Falso)

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$$\overline{P} = \overline{\left(\left(0_3 + \overline{0}_2 \right) \left(\overline{0}_3 + \overline{0}_2 \right) \right)}$$

Win Wap (False) 0 00 0 01 Ð 11 ()

A-13 = AB

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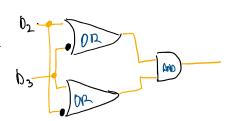
$$F = \overline{D_1} + \overline{D_3} \overline{D_2} + \overline{D_1} \overline{D_0}$$

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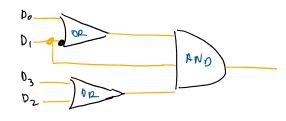
$$F = \overline{D_1} + \overline{D_3} \overline{D_2} + \overline{D_1} \overline{D_0}$$

$$F = \overline{D_1} + \overline{D_3} \overline{D_2} + \overline{D_1} \overline{D_0}$$

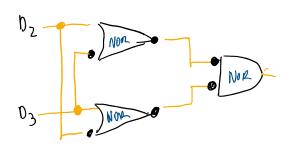
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