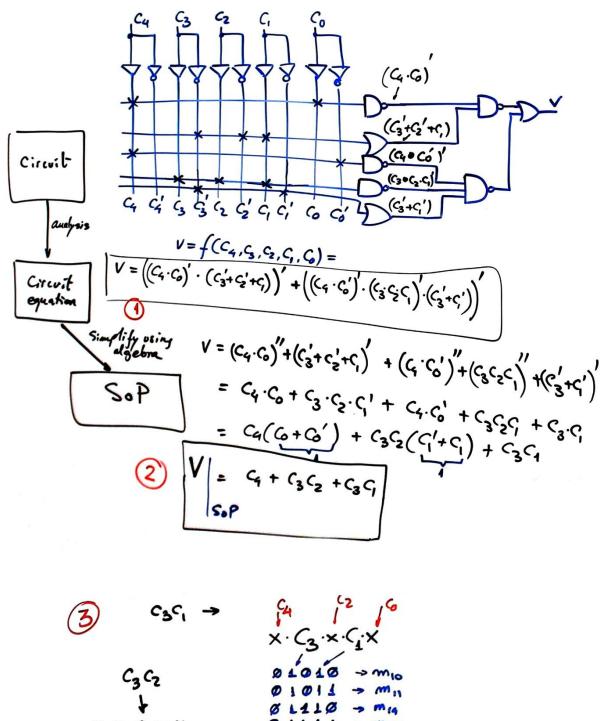
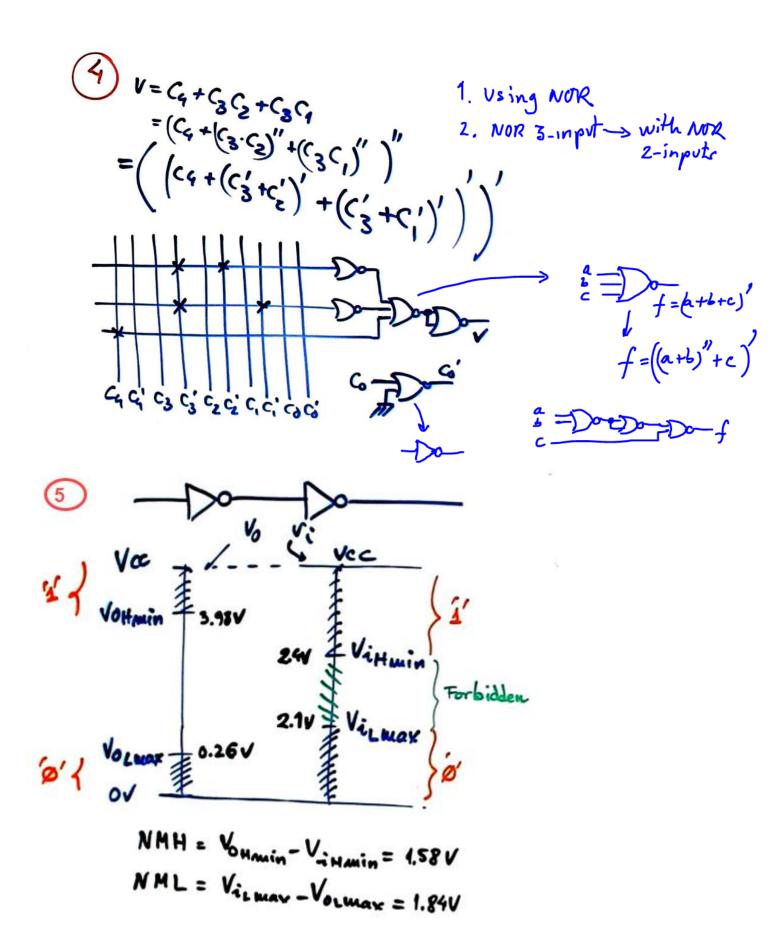
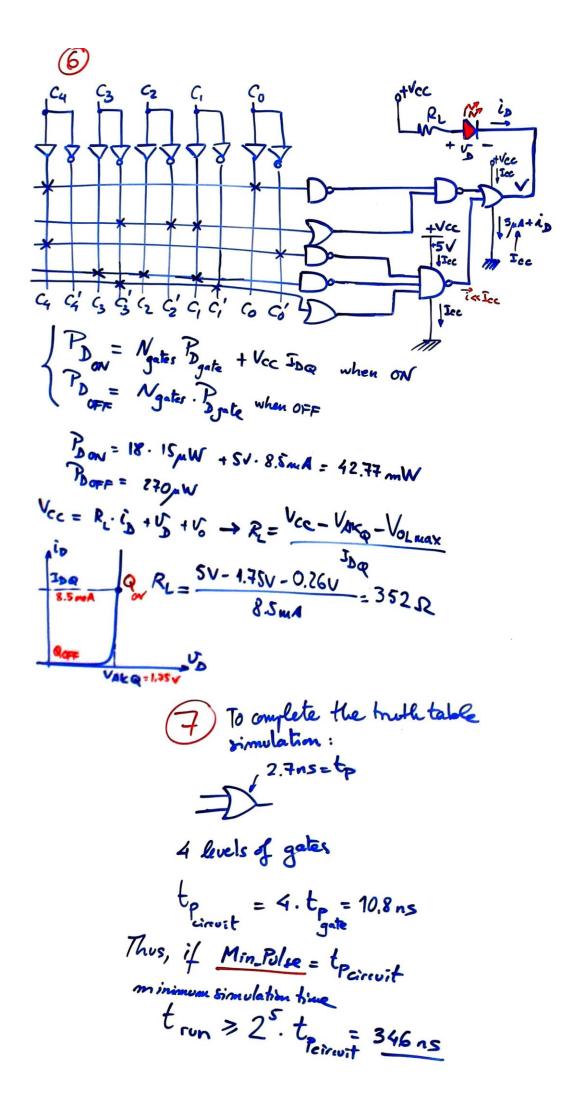
Problem 1

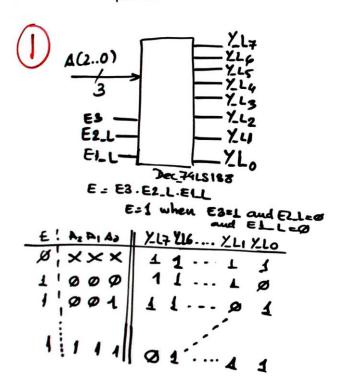


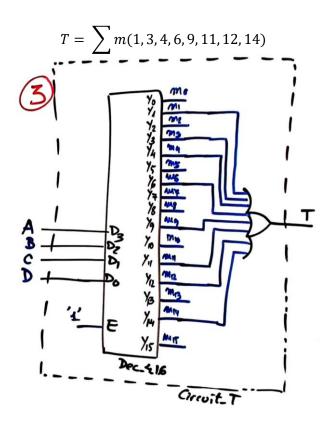
 $\begin{array}{c} x \cdot c_{3} \cdot c_{2} \cdot x \cdot x & \varphi & 1 \land 1 \land 1 \to m \\ \downarrow & \downarrow & \downarrow & 0 \land 0 \to m \\ \downarrow & \downarrow & \downarrow & 0 \land 1 \to m \\ \downarrow & \downarrow & \downarrow & 0 \land 1 \to m \\ M_{12} \cdot m_{13} \cdot m_{10} \cdot m_{15} & 1 \land 1 \land 1 & 0 \to m \\ m_{22} \cdot m_{39} \cdot m_{30} \cdot m_{30} & 1 & 1 & 1 \land 1 \to m \\ m_{22} \cdot m_{39} \cdot m_{30} \cdot m_{30} & 1 & 1 & 1 \land 1 \to m \\ m_{22} \cdot m_{39} \cdot m_{30} \cdot m_{30} & 1 & 1 & 1 \land 1 \to m \\ C_{4} - C_{4} (c_{3} + c_{3}') = C_{4} \cdot c_{3} + c_{4} \cdot c_{3}' = \dots \\ C_{4} - C_{4} (c_{3} + c_{3}') = C_{4} \cdot c_{3} + c_{4} \cdot c_{3}' = \dots \\ C_{4} \cdot x \cdot x \cdot x \cdot x \Rightarrow m_{16} \cdot m_{17} \cdot \dots \cdot m_{31} \\ V = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ V = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 4_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 15_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 15_{1} \cdot 16_{1} \cdot 16_{1} \cdot \dots \\ N = \sum m \left( 10_{11} \cdot 12_{1} \cdot 13_{1} \cdot 15_{1} \cdot 16_{1} \cdot 1$ 

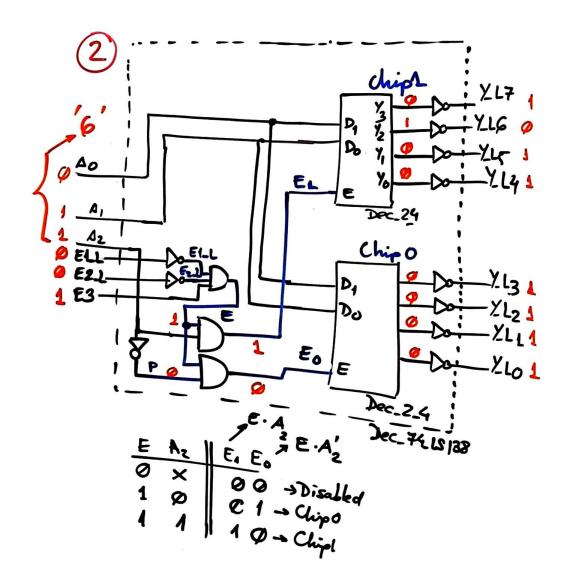


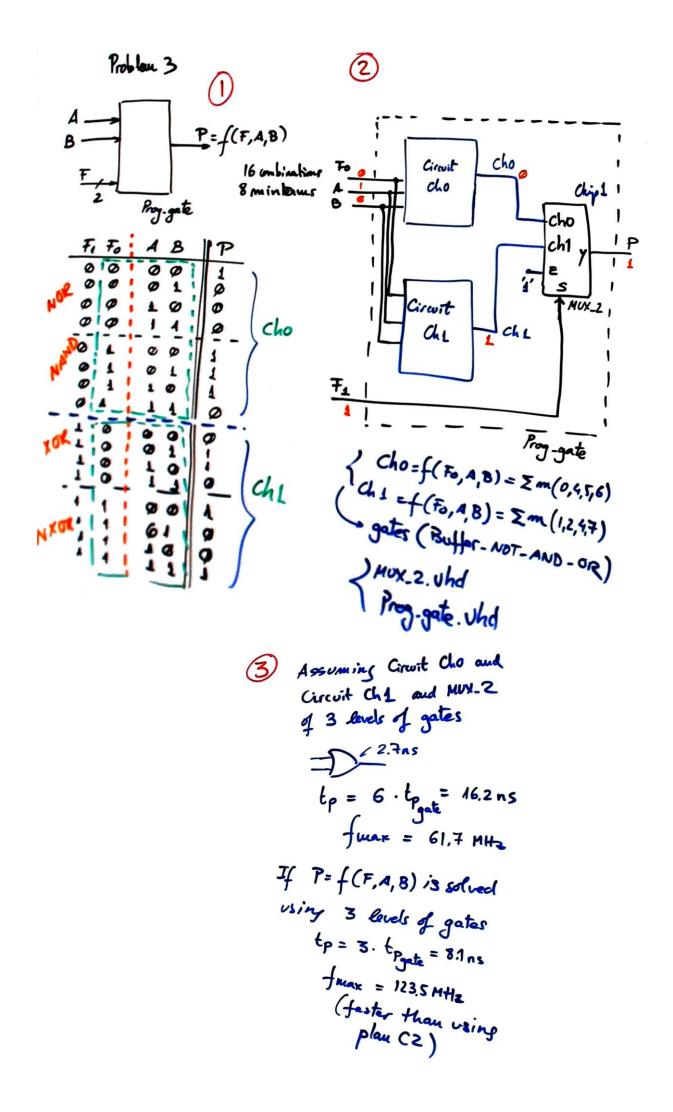


Problem 2









Problem 4

