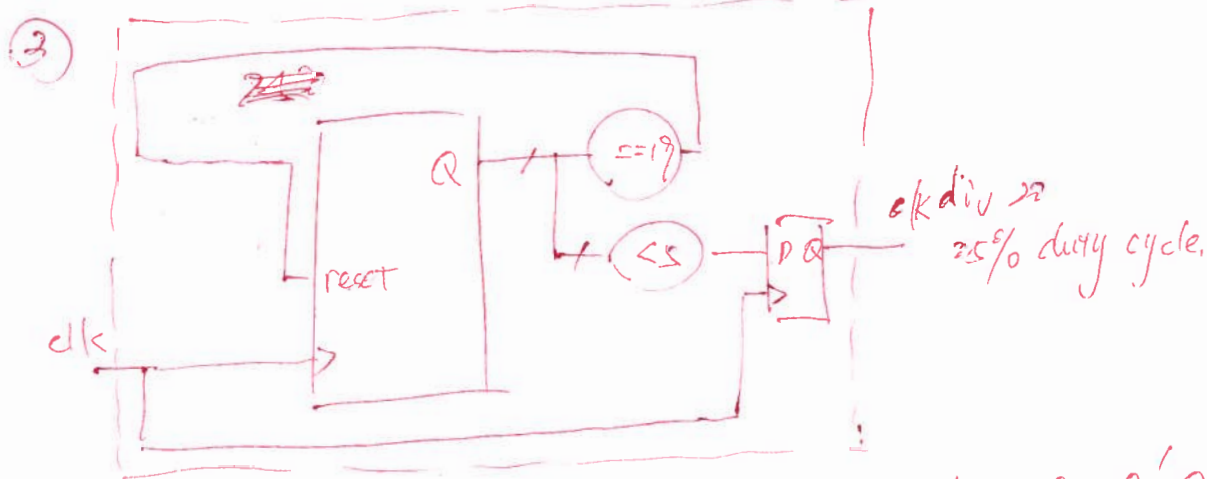
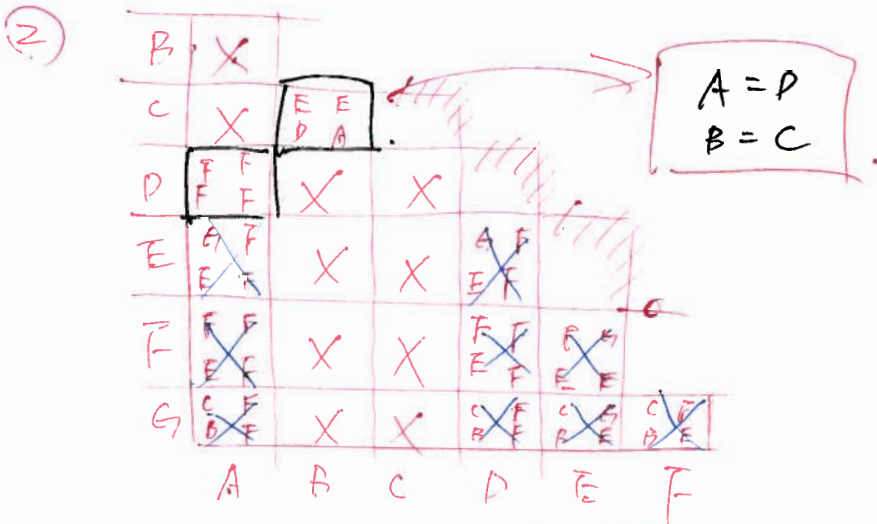


Individual Homework 6 Answer

1. b. (part a only)

prime implicants: $a'bc$, bcd , abd , acd , abc'

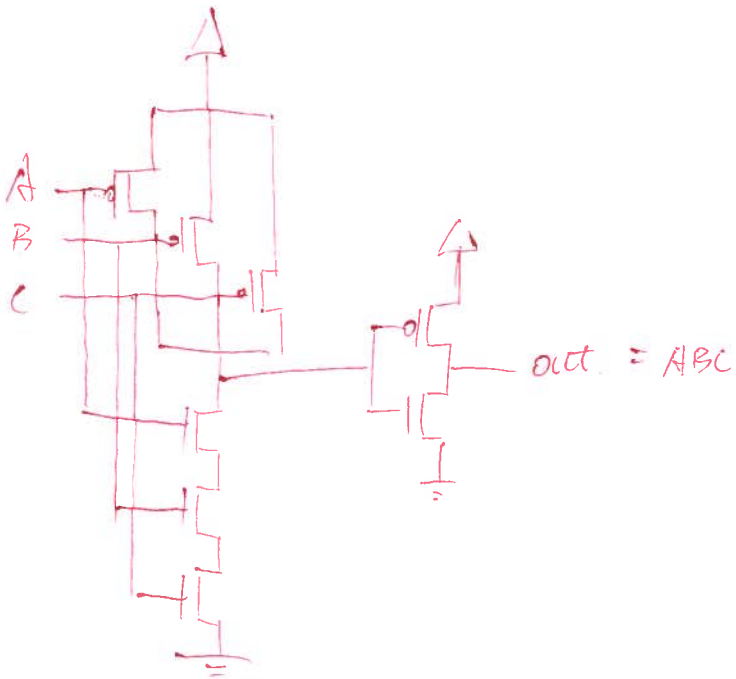
essential prime implicants: $a'bc$, abc'



$= 19$: ~~$Q_4 Q_3 Q_2 Q_1 Q_0$~~ $Q_4 Q_0$ (should be $Q_4 Q_3' Q_2' Q_1 Q_0$, but since the value won't exceed 19 $Q_4 Q_0$ will also work)

< 5 : $Q_4' Q_3' (Q_2' + Q_2 Q_1' Q_0')$

4



8

