

Lab Report

Jadi Gülnay
27047

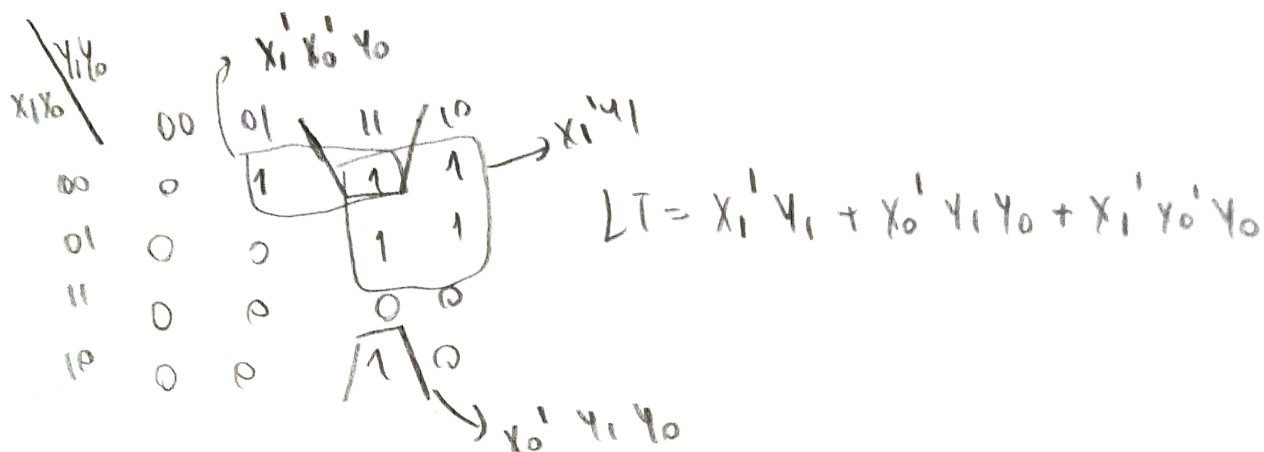
X ₁	Y ₀	Y ₁	Y ₀	LT	EQ	G ^T
0	0	0	0	0	1	0
0	0	0	1	1	0	0
0	0	1	0	1	0	0
0	0	1	1	1	0	0
0	1	0	0	0	0	1
0	1	0	1	0	1	0
0	1	1	0	1	0	0
0	1	1	1	1	0	0
1	0	0	0	0	0	1
1	0	0	1	0	1	0
1	0	1	0	0	0	0
1	0	1	1	1	0	1
1	1	0	0	0	0	1
1	1	0	1	0	0	1
1	1	1	0	0	0	1
1	1	1	1	0	1	0

Maps

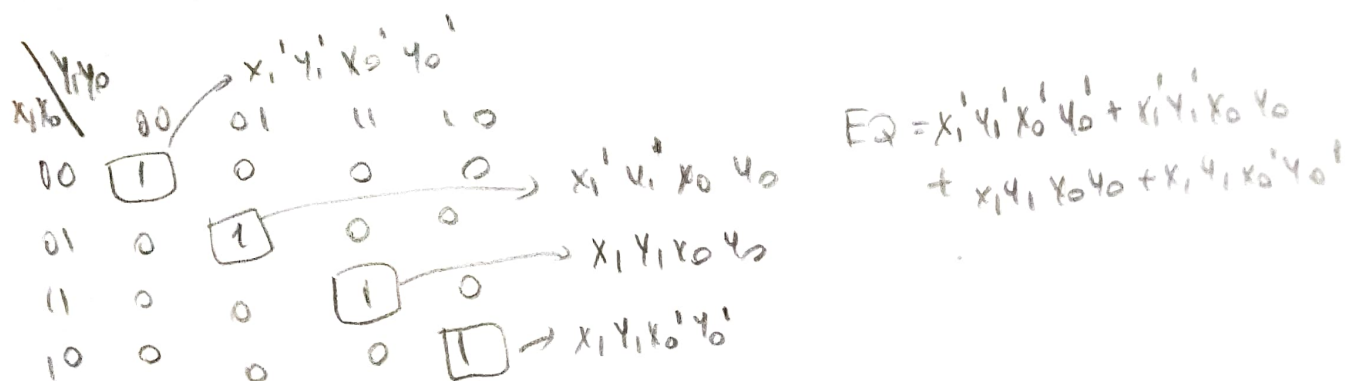
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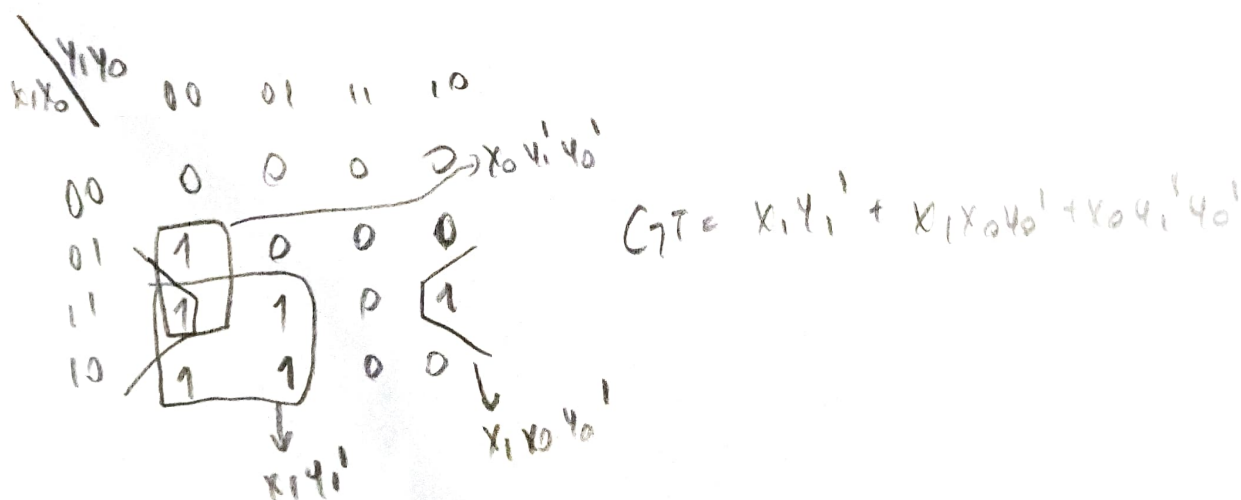
For LT, the Kmap:



For EQ, the Kmap:



For GT



We know that $(GT + LT)' = EQ$

Since EQ has most gates, we will obtain it from LT and GT