

Assignment 1 — FPGA Lab

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1 Question

Write the Product of Sum form of function $G(U,V,W)$ for the following truth table representation of F

U	V	W	G
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

2 Solution

POS Expression : $G = (U + V + \bar{W}).(U + \bar{V} + \bar{W}). (\bar{U} + V + \bar{W}).(\bar{U} + \bar{V} + W)$