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4.) Given the following truth table.

4.1) Write function in SOP form. Do not simplify.

SOP = sum of products, minterms

$$m_1 = (\overline{ABC})$$
 $m_6 = (ABC)$

$$f(x) = (\overline{ABC}) + (\overline{ABC}) + (\overline{ABC}) + (\overline{ABC}) + (\overline{ABC})$$

4.2) Write function in POS form. Do not simplify.

POS = product of sums, maxterms

$$= M_3 + M_4 + M_7$$

$$M_{4} = (\bar{A} + B + C)$$

5.) most simplified sop & Pos form for ea. of the

$$SOP = (x_1 \cdot x_0) + (x_1 \cdot x_0)$$

5.3) my + m3 + m7 + m12 + m13 + m15 SOP = (x, *X2)+(x, *X2) · Pos is sop essentially but, product of sums w/ Xz factored out 5.4) mo + m3 + m4 + m8 + D2 + D5 + D7 + D10 + D13 + D15 SOP = (X0 * X2) + (X3 * X, * X0) + $(X_2 * X_2 * X_1)$ 0)17 DC 10 POS = (X2+X3) * (X0+X1) * $(X_3 + X_0) * (X_2 + X_1)$ 5.5) m1+m3+m7+m9+m11+m15+m17+m19+m25+m27+D4+D6+ D12 + D14 + D16 + D18 + D20 + D22 + D24 + D26 + D28 + D30 SOP = (X0 * X2) + (X2)