4.) Given the following truth table.

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

SOP = sum of products, minterms

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

50:

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

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

POS = product of sums, maxterms

50:

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

$$\frac{SOP}{POS} = (X, *X_o)$$

$$\frac{SOP}{POS} = (x_1 \cdot x_0) + (x_1 \cdot x_0)$$

$$POS = (x, + X_0) * (X, + X_0)$$