## Minterm and Maxterm Expressions

For the truth table below, expression the minterm sum or products equation, and express the maxterm product of sums expression.

A	В	$\mathbf{C}$	$F_{(A,B,C)}$
0	0	0	1
1	0	0	0
0	1	0	1
1	1	0	0
0	0	1	0
1	0	1	1
0	1	1	1
1	1	1	0

$${\rm SOP~(minterms)} = \overline{A}\,\overline{B}\,\overline{C} + \overline{A}\,B\,\overline{C} + A\,\overline{B}\,C + \overline{A}\,B\,C$$

POS (maxterms) = 
$$(\overline{A} + B + C)(\overline{A} + \overline{B} + C)(A + B + \overline{C})(\overline{A} + \overline{B} + \overline{C})$$