Differentiation Assignment

November 18, 2023

Questions

1. The simplified form of the Boolean function $F(W, X, Y, Z) = \sum(4, 5, 10, 11, 12, 13, 14, 15)$ with the minimum number of terms and smallest number of literals in each terms is _____.

   (a) $WX + \bar{W}X\bar{Y} + W\bar{X}Y$

   (b) $WX + WY + X\bar{Y}$

   (c) $X\bar{Y} + WY$

   (d) $\bar{X}Y + \bar{W}\bar{Y}$