

PRACTICE PROBLEMS-1

Simplify the following Boolean expressions using K maps

1. $F(x,y,z) = \sum m(0,2,6,7)$

2. $F(x,y,z) = x'y + yz' + y'z'$

3. $F = \sum m(1,3,5,6,7,9,11)$

4. $F = \sum m(2,6,7,10,14,15)$

5. $F_1 = \sum m(0,3,8,11,12,13,15)$

6. $F = ABC'D + AB'C + B'C'D' + AB'CD + B'C'D$

7. $F = W'Z + XZ + X'Y + WX'Z$

8. Find the minterms of the following Boolean function by plotting each function on K Map

$C'D + ABC' + ABD' + A'B'D$