

Objective => cover all minterine/maxterine and variables atleast once.

VEM method =) It has 5 values in Kmap cell.

ie. 0, 1, X, var, complemented var.

(Minterno, Maxterno, Don't cares, A, A)

For K-maps, only 3 varis => 0,1, X.

Reduce by mapping -T = ABCD + ABCD + ABCD + ABCD + ABCD + ABCD TABCD + ABCD + ABCD + ABCD f = m3 + m2 + m13 + m12 + m14 + m15 + m10 + m7 + m4 + m9 f=Zm(2,3,4,7,9,10,12,13,14,15) for 4-var 5 f= m1D+ m1D+ m6D+ m6D+ m7D+ m7D+ m5D + m3D+ m2D+ m4.D = m1 (D+D)+ m2 D+ m3D+ m4D+ m5D+ m6 (D+D)+ 20170 + M7 (D+D) D D+D D+D Fully covered minterun =) when any one of variable & ite complement is covered (atleast) ·· f = (m1, m3) + (m1, m5) + (m4, m6) + (m2, m6) + (m6, m7) = TCD+BCD+ACD+BCD+AB(D+D) & = ACD+ACD+BCD+BCD+AB. # 8 = ABCE+ ABC+ ABCF+ ABCH ABCD+ ABCF a Reduced to 3 var. f = moE+ m1+ m3F+ m2+ m5.D+ m6.F $t = (m_2, m_3) + (m_2, m_6) + (m_0, m_1) + (m_1, m_5)$

= (mo, mi) + (m2, m3) + (m2, m6) + (m1, m5) + mi

= ĀBĒ + ĀBF + ♠ BŪF + BCD + ĀBC.

mo→£ is covered (Fully covered)

mi→only 'D' & 'E' are covered (Partially)

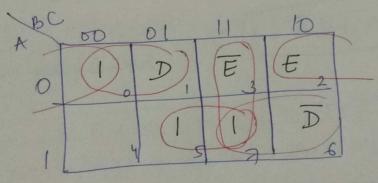
m2→F&F are covered (Fully)

m3→F is covered (Fully)

m5→D₱ is covered (Fully)

m6→₱Fis covered (Fully)

\ \frac{1}{2} = \overline{ABC+ \overline{ABCD+ \overline{ABCE+ \overline{ABC



 $f = (m_0, m_1) + (m_0, m_2) + (m_6, m_7) + (m_5, m_7) + (m_3, m_7)$ f = AC + ABD + BCE + ABD + ACE + ABC

