

(Lecture
18)

K-map

Question: $F = \Sigma (0, 1, 2, 3, 4, 5, 7)$

$= m_0 + m_1 + m_2 + m_3 + m_4 + m_5 + m_7$

	CD	00	01	11	10
AB	00	1	1	1	0
	01	1	1	1	0
	11	0	0	0	0
	10	0	0	0	0

$= (A'C' + A'D)$ ANS

This is sum of products (Min-terms)

→ To find product of sum, pair zeros instead of ones

$F = \Sigma (0, 1, 2, 3, 4, 5, 7)$

$F' = CD' + A$
 $(F')' = (CD' + A)'$

$F = (C + D) \cdot A$

	CD	00	01	11	10
AB	00	1	1	1	0
	01	1	1	1	0
	11	0	0	0	0
	10	0	0	0	0