

K-MAP \Rightarrow

\hookrightarrow Cost \approx

\hookrightarrow Easy \approx

Systemic Method \approx

Cost \downarrow

\rightarrow Literals \downarrow

(2) SOP & POS

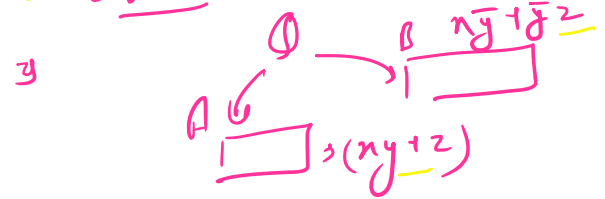
$(ny)(y+z)$

\Rightarrow Irreducible \rightarrow expression Reduce \downarrow

\rightarrow Irredundant \rightarrow expression redundant \times

Q $\Rightarrow nyz + \bar{n}\bar{y}z + yz\bar{x} +$

\Rightarrow 5 Variables \rightarrow



$\left\{ \begin{array}{l} ny \bar{y} z \\ \bar{n} \bar{y} z \\ \bar{n} y + \bar{z} \end{array} \right. \leftarrow \bar{n} z y$

$nywz$

4 Variables

	$ny \bar{w} z$	$\bar{n} y \bar{w} z$	$\bar{n} y w z$	$ny w z$
wz	00	01	11	10
$\bar{w} \bar{z}$	00	1	3	2
$\bar{w} z$	01	4	5	6
$w \bar{z}$	11	12	13	14
$w z$	10	8	9	10

$\Sigma(0, 1, 5, 7)$ $\underline{0110 + 6}$
 $f = (\bar{n} \bar{y} \bar{w}) + (\bar{n} \bar{y} z w)$
2 Variables (ny)

y	0	1
0	0	1
1	2	3

2 Variables

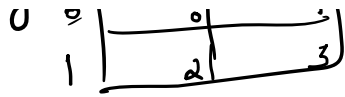
z	$ny \bar{y}$	$\bar{n} \bar{y}$	11	10
\bar{z}	0	1	3	2
z	4	5	7	6

zny
 $000 \rightarrow 0$
 $001 \rightarrow 1$
 $011 \rightarrow 3$
 $010 \rightarrow 2$
 $111 \rightarrow 7$

2^7 3 Variables

$(0-7)$ $\begin{array}{ccc} 0 & 0 & 0 \rightarrow \\ 0 & 0 & 1 \leftarrow \end{array}$

ny	
\rightarrow	0 1
\rightarrow	0 0
\rightarrow	1 1
\rightarrow	1 0



01

0 0

