

1/a/ SOP:

$$f(x, y, z) = x\bar{y}\bar{z} + xyz$$

b/ Karnaugh:

		<u>y</u>			
<u>x</u> \ <u>yz</u>		00	01	11	10
x	0	0	0	0	0
	1	<u>1</u>	0	<u>1</u>	0

Nhóm 1:  $x\bar{y}\bar{z}$

Nhóm 2:  $xyz$

$$\Rightarrow f(x, y, z) = x\bar{y}\bar{z} + xyz = x(yz + \bar{y}\bar{z})$$

$$2/a/ f(x, y, z) = \sum(0, 1, 5, 7)$$

		<u>y</u>			
<u>x</u> \ <u>yz</u>		00	01	11	10
x	0	<u>1</u>	<u>1</u>	0	0
	1	0	<u>1</u>	<u>1</u>	0

Nhóm 1:  $\bar{x}\bar{y}$

Nhóm 2:  $xz$

$$\Rightarrow f(x, y, z) = \bar{x}\bar{y} + xz$$

$$b/ f(A, B, C) = \sum(0, 2, 3, 4, 6)$$

		<u>C</u>			
<u>A</u> \ <u>BC</u>		00	01	11	10
A	0	<u>1</u>	0	<u>1</u>	<u>1</u>
	1	<u>1</u>	0	0	<u>1</u>

Nhóm 1:  $\bar{C}$

Nhóm 2:  $\bar{A}B$

$$\Rightarrow f(A, B, C) = \bar{A}B + \bar{C}$$