

b)

x	y	z	f
1	1	1	1
1	1	0	0
1	0	1	0
1	0	0	0
0	1	1	0
0	1	0	1
0	0	1	0
0	0	0	1

hàng:

tiếp:

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

x	y	z	f
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	0
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0

hàng:

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

tiếp:

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

c)

x	y	z	f
1	1	1	1
1	1	0	0
1	0	1	0
1	0	0	1
0	1	1	0
0	1	0	1
0	0	1	1
0	0	0	0

hàng:

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

tiếp:

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



Nguyễn Minh Dũng

$$f(x, y, z) =$$

$x$	$y$	$z$	$f$
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	0
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0

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

Bài 5:

$x$	$y$	$z$	$f$
1	1	1	1
1	1	0	1
1	0	1	0
1	0	0	0
0	1	1	0
0	1	0	0
0	0	1	0
0	0	0	0

tổng

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

tiếp

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



Đúng

AN TOÀN

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Đồng kê tiêu chuẩn

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$$f(x, y, z) = x$$

x	y	z
1	1	1
1	1	0
1	0	1
1	0	0
0	1	1
0	1	0
0	0	1
0	0	0

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

Bài 4:

$$f(x, y, z, t)$$

x	y	z	t
1	1	1	1
1	1	1	0
1	1	0	1
1	1	0	0
1	0	1	1
1	0	1	0
1	0	0	1
1	0	0	0
0	1	1	1
0	1	1	0
0	1	0	1
0	1	0	0
0	0	1	1
0	0	1	0
0	0	0	1
0	0	0	0

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

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trào hoai >  
otang

Mon Tue Wed Thu Fri Sat  
Date: No:



Nguyễn Minh Đức

B3:

$$a, f(x, y, z) = x + y + z$$

x	y	z	f
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	1
0	1	1	1
0	1	0	1
0	0	1	1
0	0	0	0

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

$$+ \bar{x}yz + \bar{x}\bar{y}z + \bar{x}\bar{y}\bar{z}$$

$$b, f(x, y, z) = x(x + z)y$$

$$= xy + zy \quad (\text{lưu ý nhân chéo})$$

$$= xy \cdot 1 + zy \cdot 1 \quad (\text{" " " "})$$

$$= xy(z + \bar{z}) + zy(x + \bar{x}) \quad (\text{lưu ý bù})$$

$$= xyz + x\bar{z}y + zy\bar{x} + zy\bar{x} \quad (\text{lưu ý nhân chéo})$$

$$= xyz + x\bar{z}y + x\bar{z}y + \bar{x}zy \quad (\text{lưu ý giao hoán})$$

$$= xyz + x\bar{z}y + x\bar{z}y + \bar{x}zy \quad (\text{lưu ý giao hoán})$$

$$= xyz + x\bar{z}y + \bar{x}zy \quad (\text{lưu ý luật đồng nhất})$$



Bài 2:

Nguyễn Minh Dũng

$$a, F(x, y, z) = x\bar{y} + (\bar{x}y)z$$

x	y	z	$\bar{y}$	$x\bar{y}$	$\bar{x}y$	F
1	1	1	0	0	0	0
1	1	0	0	0	1	1
1	0	1	1	1	1	1
1	0	0	1	1	1	1
0	1	1	0	0	1	1
0	1	0	0	0	1	1
0	0	1	1	0	1	1
0	0	0	1	0	1	1

$$b, F(x, y, z) = x(yz + \bar{y}\bar{z})$$

x	y	z	$\bar{y}$	$\bar{z}$	$yz$	$\bar{y}\bar{z}$	$yz + \bar{y}\bar{z}$	F
1	1	1	0	0	1	0	1	1
1	1	0	0	1	0	0	0	0
1	0	1	1	0	0	0	0	0
1	0	0	1	1	0	1	1	1
0	1	1	0	0	1	0	1	0
0	1	0	0	1	0	0	0	0
0	0	1	1	0	0	0	0	1
0	0	0	1	1	0	1	1	0

2PP)

đang)



Bài tập về nhà tuần 8,

Đặng  
Nguyễn Minh Dũng

Bài 1: Chứng minh

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

$$\text{vế v.p} = (x+y)(\bar{x}+z)(y+z)$$

$$= [(x+y)(\bar{x}+z)](y+z) \quad \langle \text{Luật kết hợp} \rangle$$

$$= [(x+y)\bar{x} + (x+y)z](y+z) \quad \langle \text{Luật phân phối} \rangle$$

$$= (x\bar{x} + y\bar{x} + xz + yz)(y+z) \quad \langle \text{Luật nhân phối} \rangle$$

$$= (0 + y\bar{x} + xz + yz)(y+z) \quad \langle \text{Luật bù} \rangle$$

$$= (0(y+z) + y\bar{x}(y+z) + xz(y+z) + yz(y+z)) \quad \langle \text{Luật nhân} \rangle$$

$$= 0 + y\bar{x}(y+z) + xz(y+z) + yz(y+z) \quad \langle \text{Luật nhân} \rangle$$

$$= y\bar{x}y + y\bar{x}z + xzy + xzz + yzy + yzz \quad \langle \text{Luật kết hợp} \rangle$$

$$= \bar{x}y + y\bar{x}z + xzy + xz + yz + yz \quad \langle \text{Luật lũy đẳng} \rangle$$

$$= \bar{x}y + y\bar{x}z + yzy + xz + yz$$

$$= \bar{x}y + y\bar{x}z + yz + xz$$

$$= \bar{x}y(1+z) + xz(y+1)$$

$$= \bar{x}y + xz$$

$$= xz + \bar{x}y = VT$$