

HW1

1a2 $y = \overline{a \oplus b \oplus c}$

a	b	c	y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	0

$$y = \bar{a}\bar{b}\bar{c} + \bar{a}b\bar{c} + a\bar{b}\bar{c} + \bar{a}b\bar{c}$$
$$y = \bar{a}(\bar{b}\bar{c} + b\bar{c}) + a(\bar{b}\bar{c} + b\bar{c})$$

$$\bar{y} = \bar{a}b\bar{c} + \bar{a}b\bar{c} + a\bar{b}\bar{c} + abc$$
$$\bar{y} = \bar{a}(b\bar{c} + b\bar{c}) + a(\bar{b}\bar{c} + bc)$$

