

$$7) \bar{a}\bar{b}\bar{c} + \bar{a}b\bar{c} + a\bar{b}\bar{c} + ab\bar{c}$$

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

$$\bar{a}(b \text{ NOT } \oplus c) + a(b \oplus c)$$

6)

NAND

A B S

0 0 1

0 1 1

1 0 1

1 1 0

NOR

A B S

0 0 1

0 1 0

1 0 0

1 1 0

NXOR

A B S

0 0 1

0 1 0

1 0 0

1 1 1