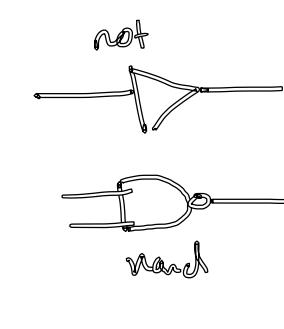


symbolic

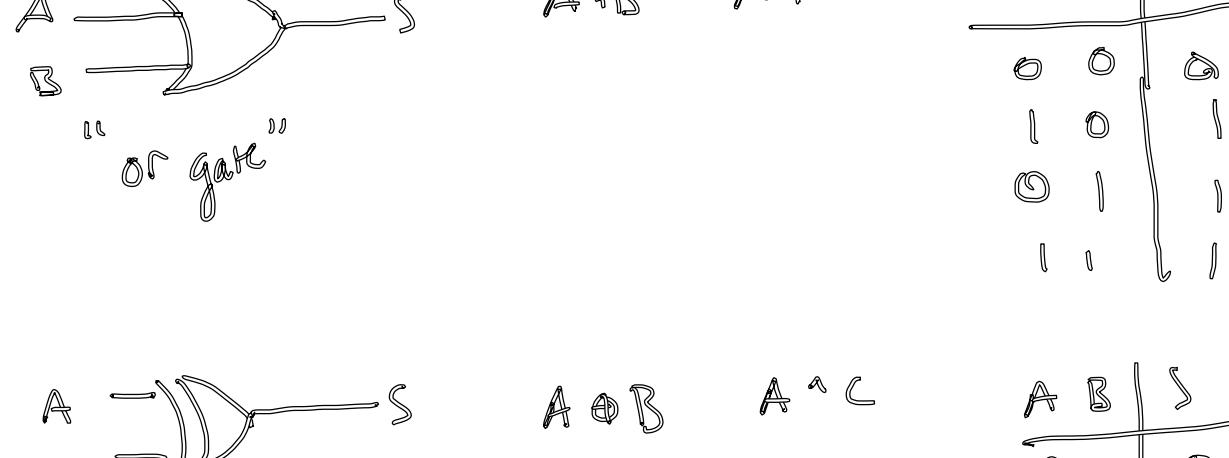
A	B	C
AB	$A \& B$	

AB

A	B	S
0	0	0
0	1	0
1	0	0
1	1	1



nand

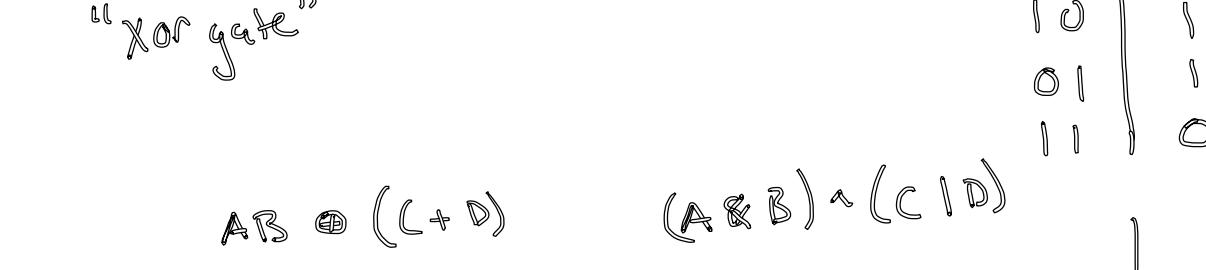


symbolic

A	B	C
$A + B$	$A \mid B$	

$A + B$

A	B	S
0	0	0
1	0	1
0	1	1
1	1	1



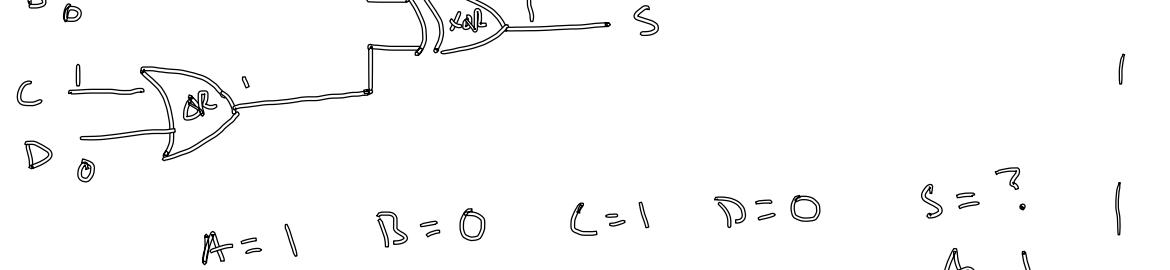
symbolic

A	B	C
$A \oplus B$	$A \wedge C$	

$A \oplus B$

A	B	S
0	0	0
1	0	1
0	1	1
1	1	0

$$AB \oplus (C + D) = (A \& B) \wedge (C \mid D)$$



$$A=1 \quad B=0 \quad C=1 \quad D=0 \quad S=?$$

$$A=1 \quad B=0$$



AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0

AB ⊕ B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	0