

NAND

NOTATIONS:

$$\neg(x \wedge y)$$

$$x' \vee y'$$

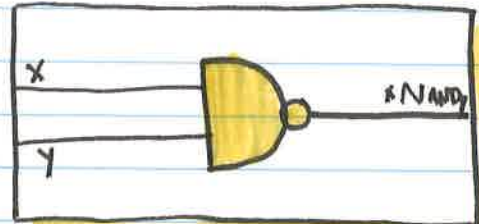
(nand x y) - racket

x	y	x NAND y
0	0	1
0	1	1
1	0	1
1	1	0

OPERATION:

THE SAME AS NOT AND.

JUST AND BUT NEGATED
ONLY FALSE WHEN
BOTH INPUTS ARE
TRUE.



UNIVERSAL GATE:

DUE TO DEMORGAN'S LAW
NAND FUNCTIONS AS A
UNIVERSAL GATE, MEANING
ALL GATES CAN BE
CONSTRUCTED USING NAND.

