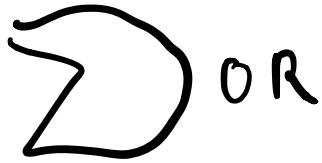
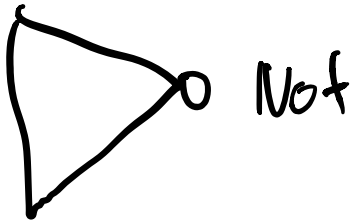
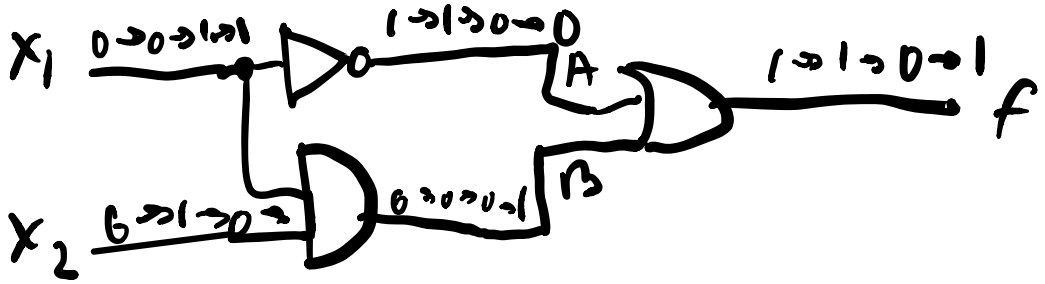
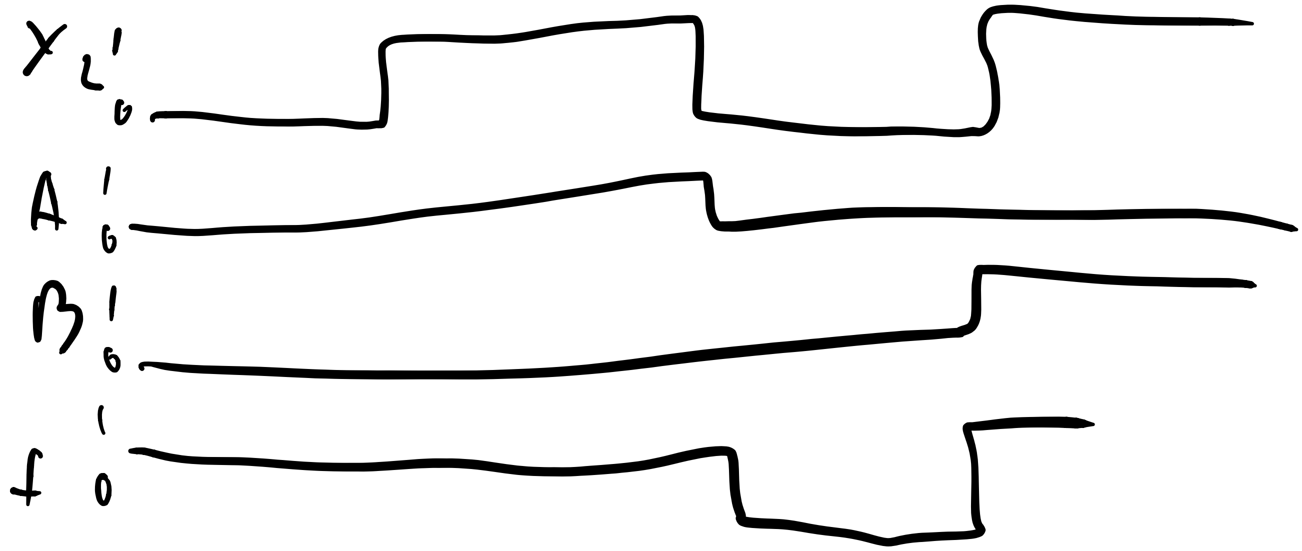
Not And O_2







x_1	x_2	$!x_1$	$(x_1 \cdot x_2)$	$!x_1 + !(x_1 \cdot x_2)$
0	0	1	0	1
0	1	1	0	1
1	0	0	0	1
1	1	0	1	0



Functionally equivalent networks:
different transistors
same result

12 a

$(x+y)(x+\bar{y})$

7 a

8 a

30.625 / 35

4.35

8 b

12 a 6 a 12 b

-1

8 b

7 b

6 a

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

6 a

8 b

12 u

12 a

12 a 12a

6 6 5b

6 6 5b

6 a

6 a

12a

7a

12a

5b

6a

$23.8_5 / 43$ 4.7

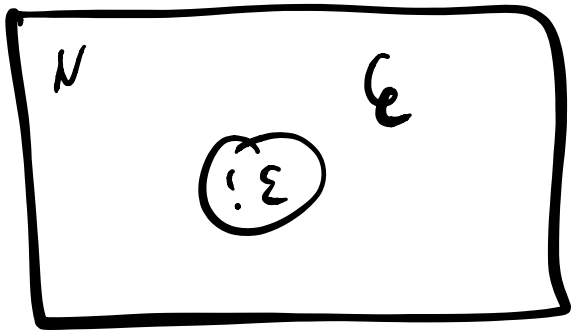
28.6_6

$(x-y)(x-z)$

$N: \{1-10\}$

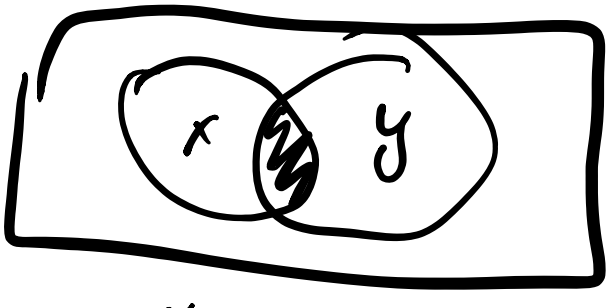
$\xi = \{\text{even } N\}$

$!\xi = \xi \text{ odd } N\}$



$x=1$

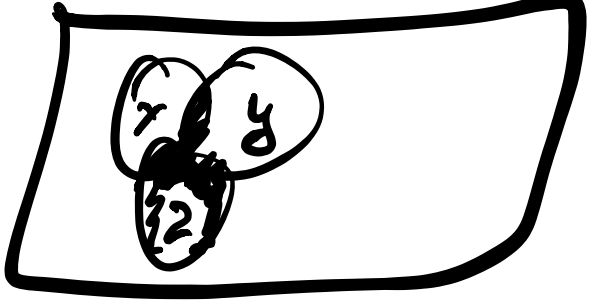
$x=0$



$x \cdot y$

$x + y$

$x \cdot !y$



$(x \cdot y) \cdot z$