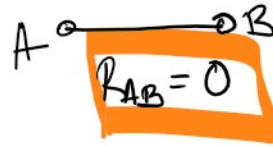
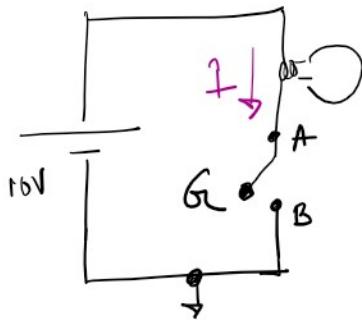
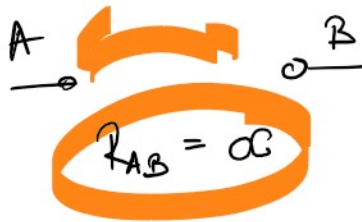


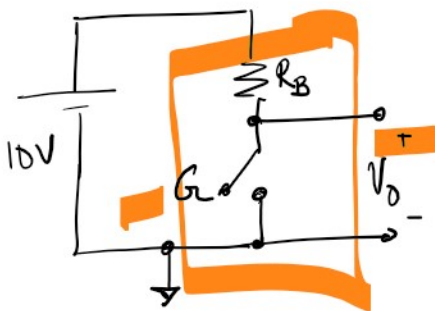
Switch on
($G = \text{logical } 1$)



Switch off



G	1	Bulb
on (1)	High	On (1)
off (0)	0	Off (0)

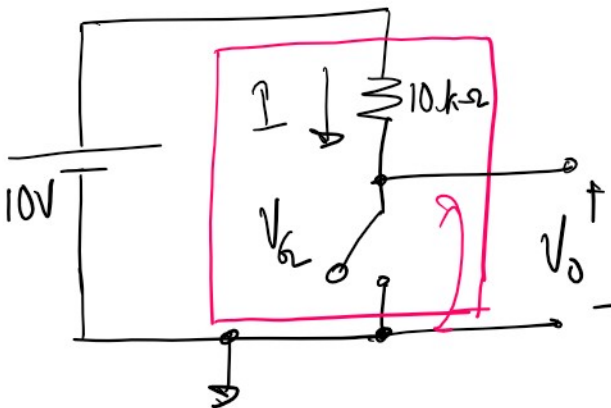
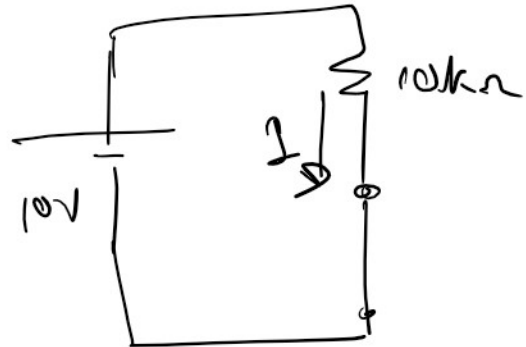
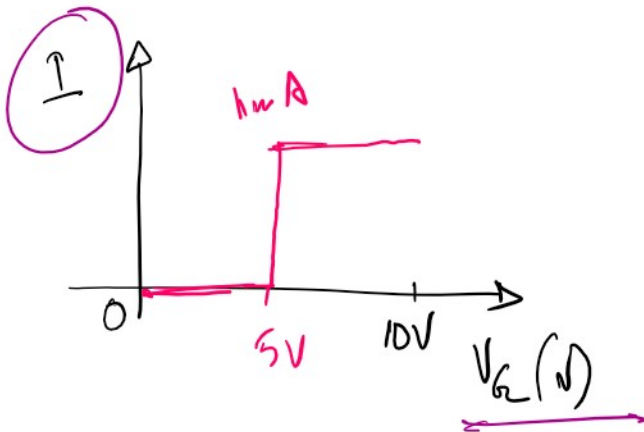
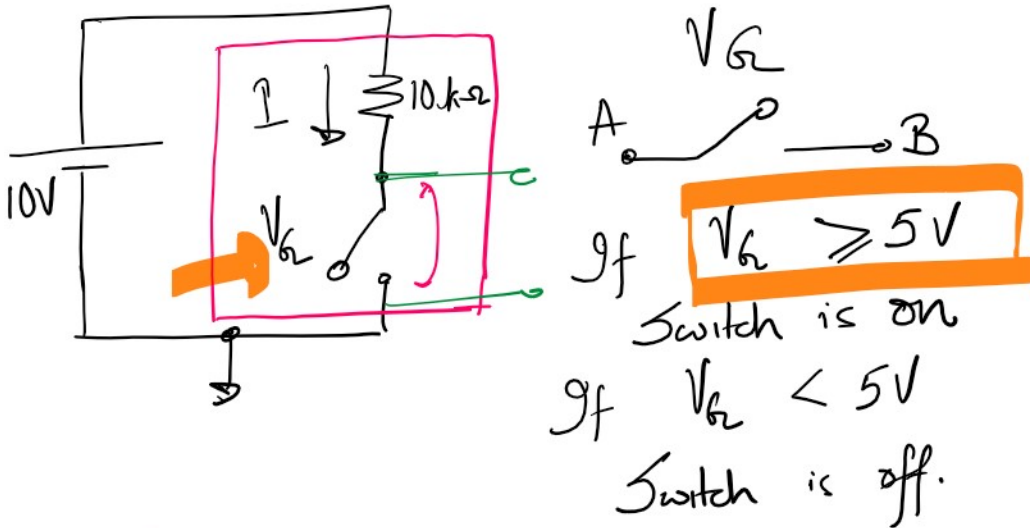


G	1	$V_o (V)$
on (1)	High	0 (0)
off (0)	0	10 (1)

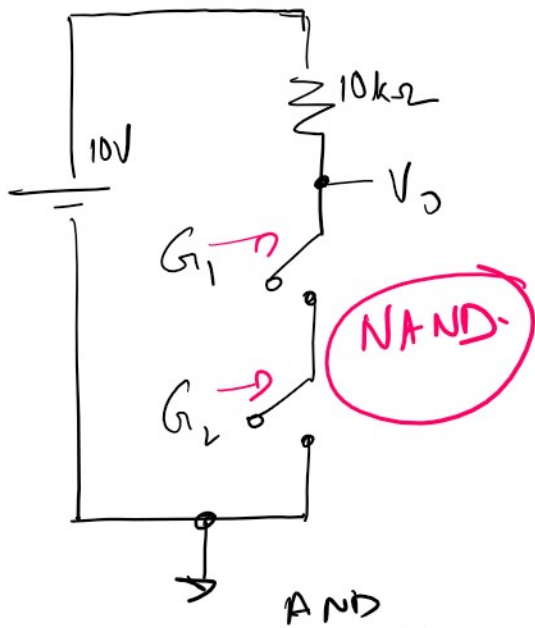
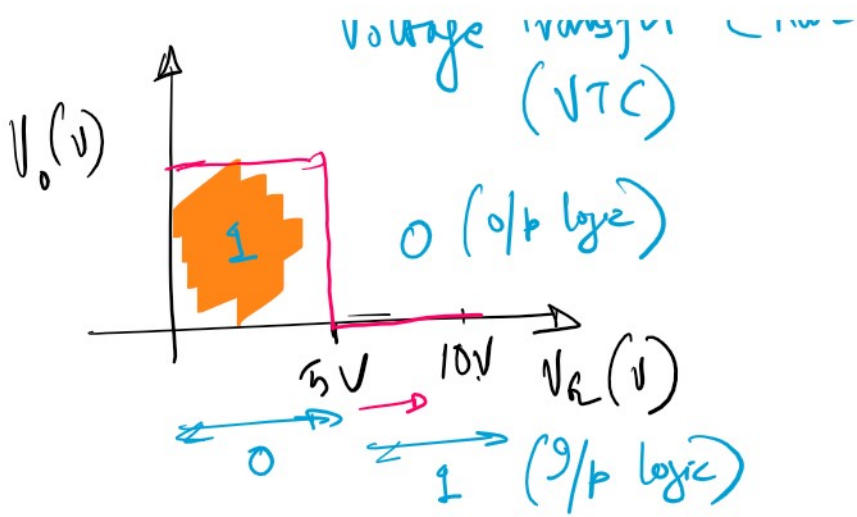
G	V_o
0	1
1	0

In practice G is a voltage

In practice V_G is a voltage
 What is the I-V char of the
 NOT-gate.



Voltage Transfer Char
 (VTC)



AND

x_1	x_2	y
0	0	0
0	1	0
1	0	0
1	1	1

if $G_1 = 0$ & $G_2 = 0$

$V_o = 10V$ (1)

if $G_1 = 0$ & $G_2 = 1$

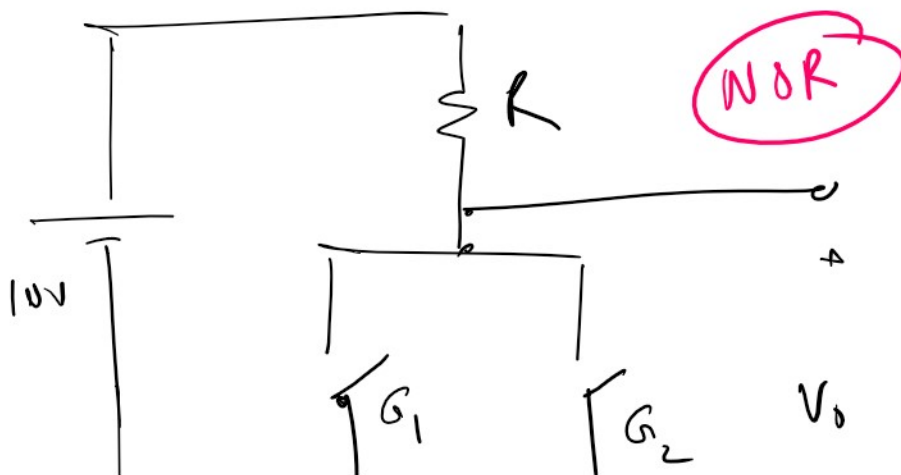
$V_o = 10V$ (1)

if $G_1 = 1$ & $G_2 = 0$

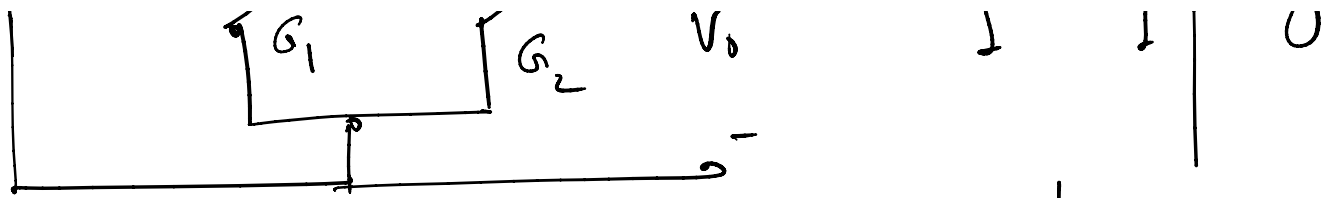
$V_o = 10V$ (1)

if $G_1 = 1$ & $G_2 = 1$

$V_o = 0$ (0)



G_1	G_2	V_o
0	0	1
0	1	0
1	0	0
1	1	0



X_1	X_2	Y
0	0	0
1	0	1
0	1	1
1	1	1