1.) 2N3904 Fet   ← Flat side on bottom

Collector   Emmitter
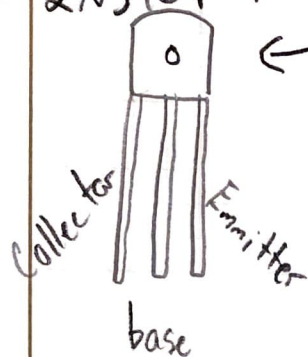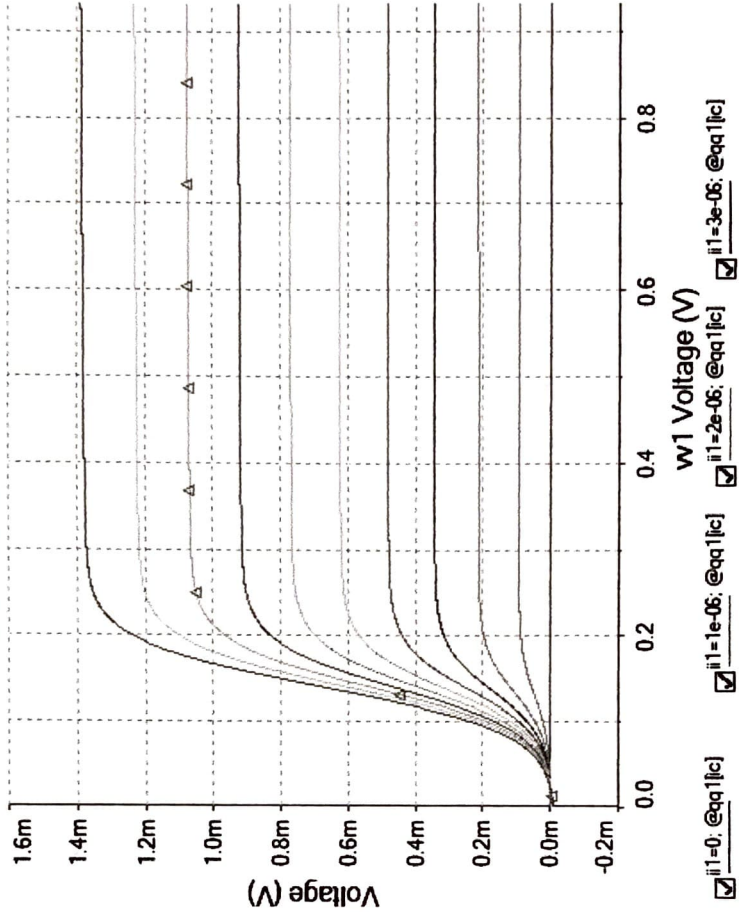
base

2.) See attached

3.) Operates as closed switch when it is
in saturation region. It is in cutoff
when it is open switch.
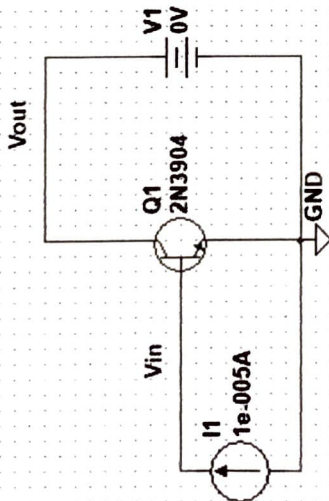Because in saturation V_{CE} is small,
and in cutoff $i(c) = 0$.

DC Sweep

Prelab #7

DC Transfer Characteristic

w1 Voltage (V)

Voltage (V)

☑ i1=0: @qq1[ic]   ☑ i1=1e-06: @qq1[ic]   ☑ i1=2e-06: @qq1[ic]   ☑ i1=3e-06: @qq1[ic]

Selected Trace:i1=8e-06; @qq1[ic]

Vout

V1
0V

Q1
2N3904

Vin

GND

I1
1e-005A

Gabriel Emerson