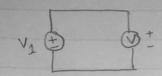


EE49 Prelab

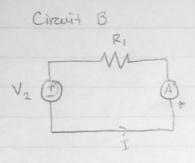
a) Circuit A



V1-V=0 by KUL

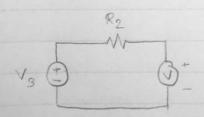
V1 = V = 3V

V = 3V



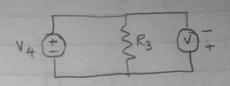
A = voltage = 3V/SKIL A = 0.6 mA

Circuit C



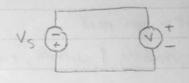
13 - 1 = 0 by KVL V= 3V

Circuit D



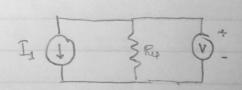
V4+ V = 0 by KUL  $V_4 = -V$  V = -3V

Circuit E



V5+V= 0 (KVL) (N= -3V)

Circuit F



V= IR = I1.0 (open wire) V= 0V



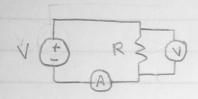
## EE49 Prevalo

P= IV = 0. V = 0

Circuit B

P= IV = I . 0 = 0

P= IV = 3.8 V . 40 mA = [152mW]



For each resistor you need -> voltage reading of current, everything else is calculable

## 4.2 Reading

- a) The power rails are not connected.
- 5) 60/40 Solder 370°C Lead-free Solder - 400°C

2/4/2019 Prelab

```
In [2]: import matplotlib.pyplot as plot
voltage = [30, 100, 200, 400, 480, 505, 520]
current = [100, 99, 95, 91, 85, 50, 10]
plot.scatter(voltage, current)
```

Out[2]: <matplotlib.collections.PathCollection at 0x28a204bef28>

