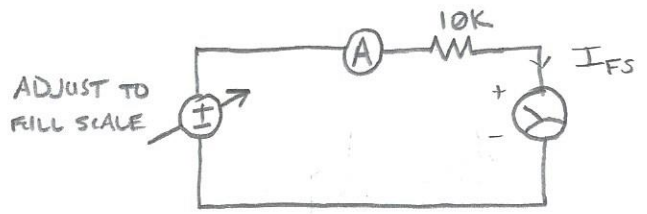
# USING A CURRENT SHUNT TO CHANGE THE FULL SCALE READING OF AN AMMETER

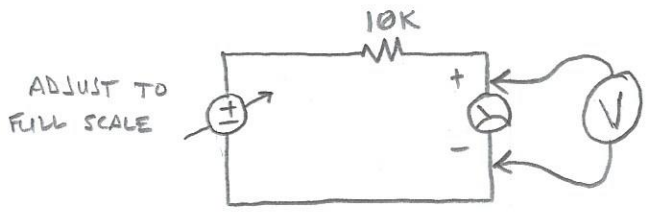
W2AEW

① MEASURE FULL SCALE CURRENT OF THE METER:




$I_{FS} = 200\,\mu A$

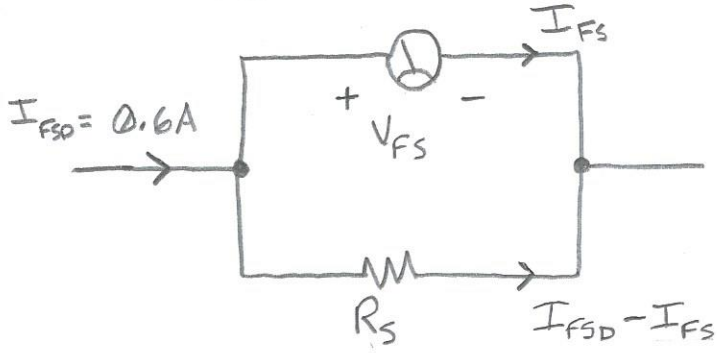
② MEASURE THE METER'S VOLTAGE DROP AT FULL SCALE:




$V_{FS} = 185mV$

③ CALCULATE SHUNT RESISTOR FOR DESIRED FULL SCALE CURRENT: $I_{FSD}$

$I_{FSD} = 0.6\,A$




$$R_S = \frac{V_{FS}}{I_{FSD} - I_{FS}}$$

$R_S = 308m\Omega$