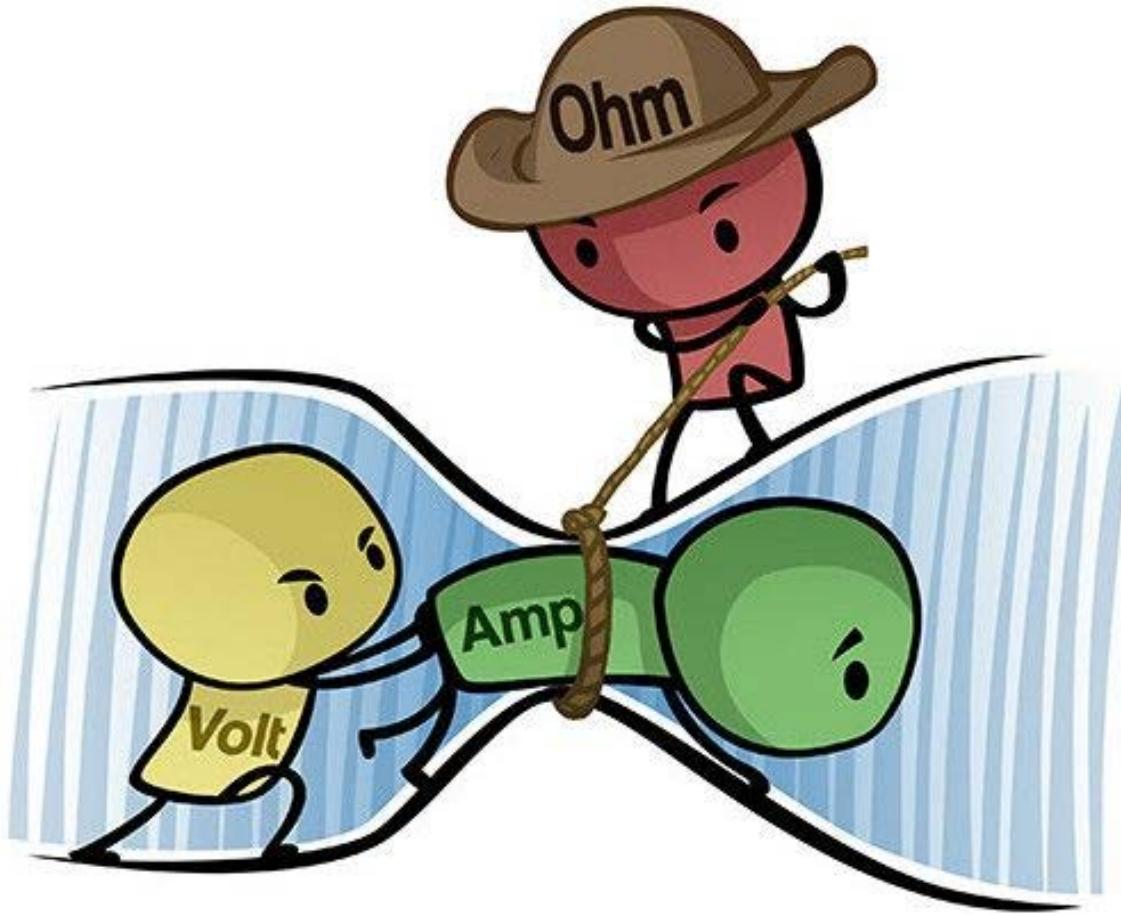


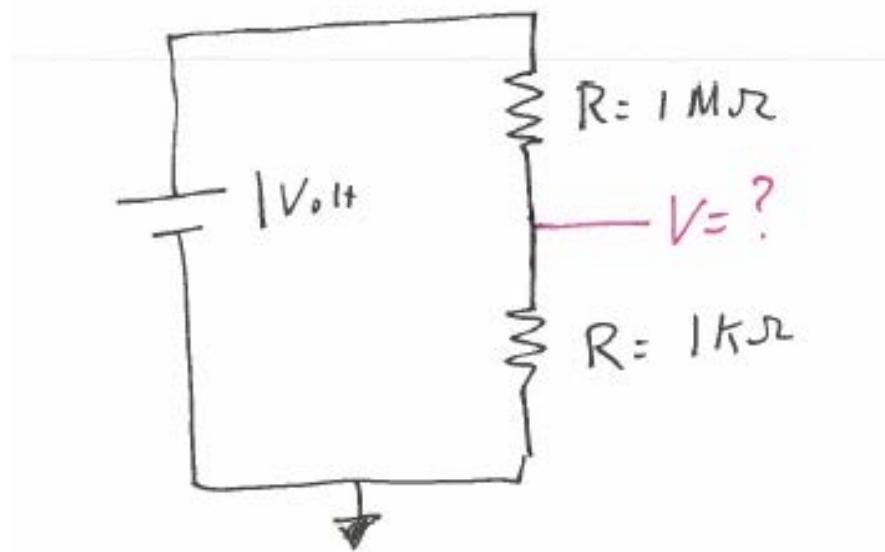
Resistors

Resistors

- Twinkle, twinkle little star, $V = IR$
- What is V ?
- What is I ?



<https://i.pinimg.com/736x/b3/09/c6/b309c62a9775c6c82b3d9e5657614eae--circuit-diagram-electronic-circuit.jpg>

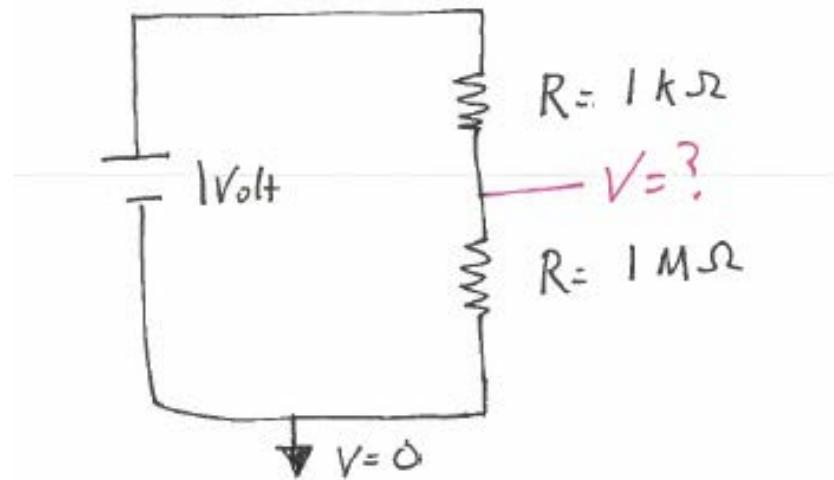


a) $V \approx |V_0|t$

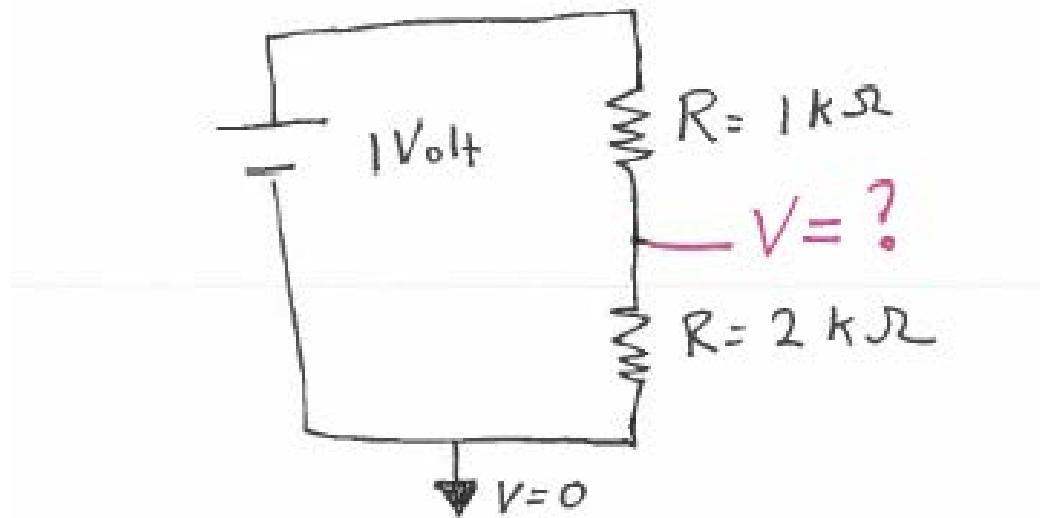
b) $V \approx 0 \text{ Volt}$

c) $V = \frac{1}{2}V_0t$

d) $V = \frac{1}{3}V_0t$



- a) $V \approx 1V_{0t}$
- b) $V \approx 0V_{0t}$
- c) $V = \frac{1}{2}V_{0t}$
- d) $V = \frac{1}{3}V_{0t}$



a) $V = 1 \text{ Volt}$

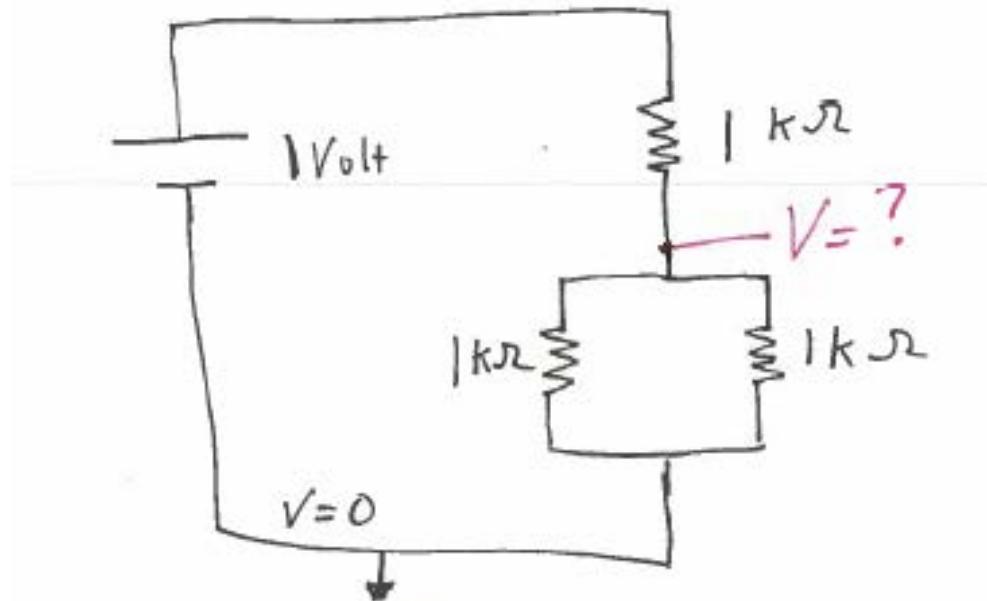
b) $V = \frac{1}{2} \text{ Volt}$

c) $V = \frac{2}{3} \text{ Volt}$

d) $V = \frac{1}{3} \text{ Volt}$

An aside about the pendulum lab

- Potentiometer

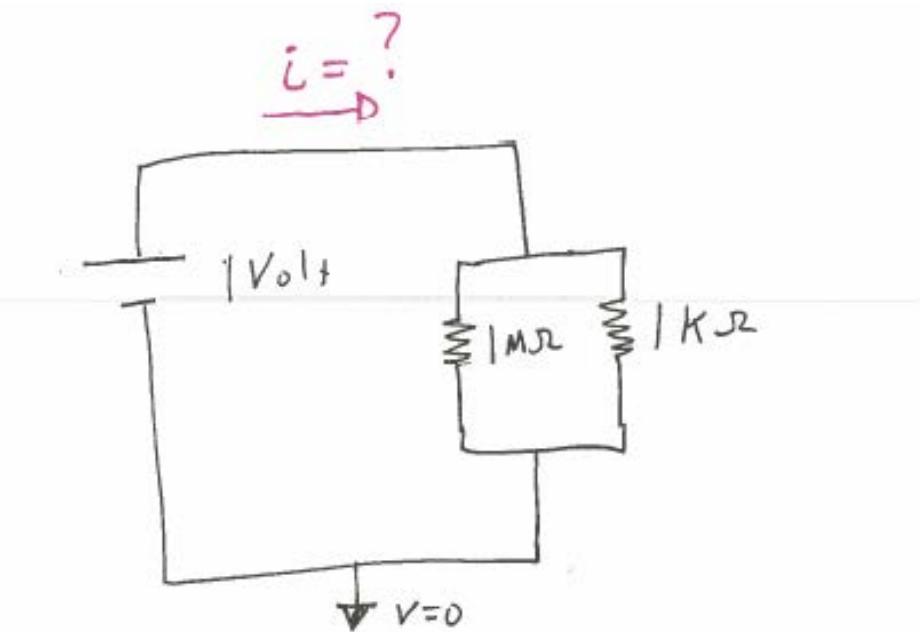


a) $V = \cancel{0} 1 \text{ Volt}$

b) $V = \frac{1}{2} \text{ Volt}$

c) $V = \frac{2}{3} \text{ Volt}$

d) $V = \frac{1}{3} \text{ Volt}$

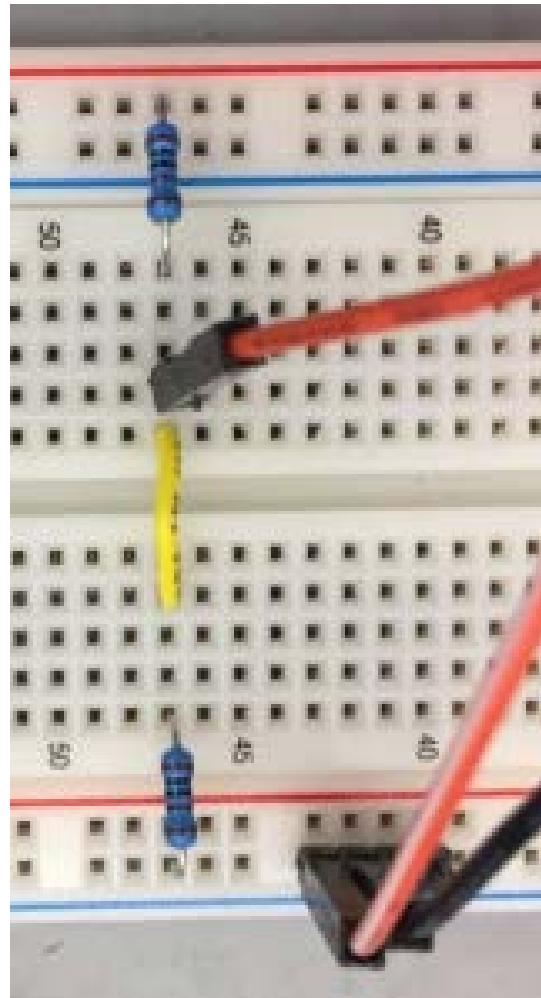
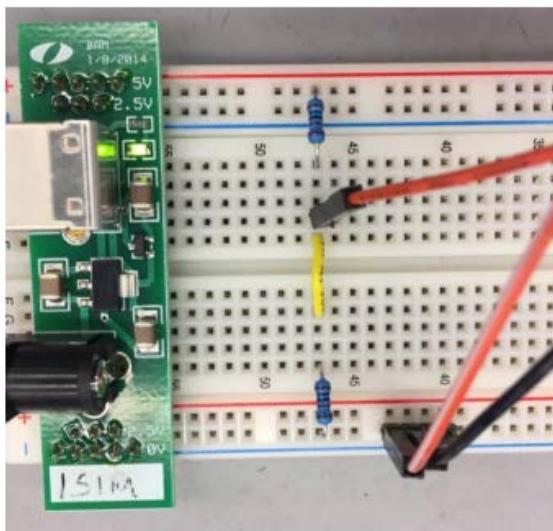
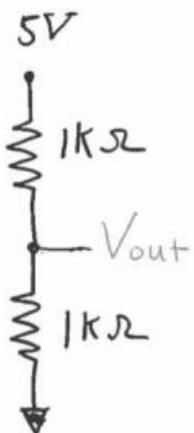


a) $i \approx \frac{1}{1000}$ Amps $\approx 1 \text{ mA}$

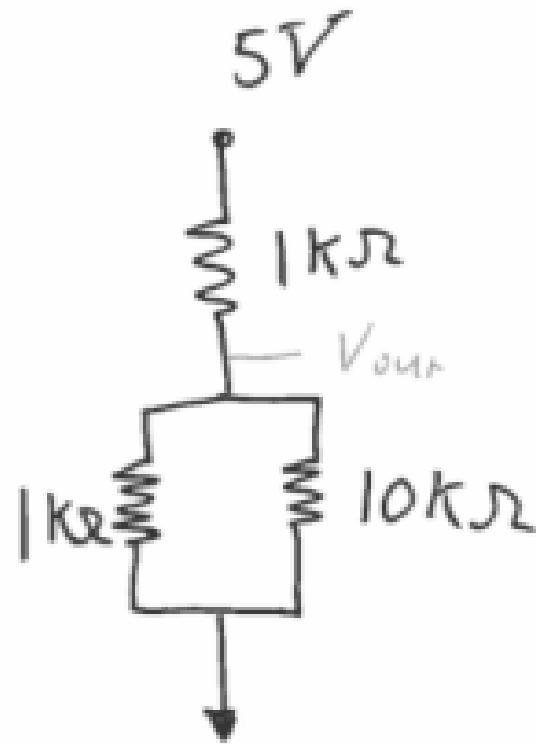
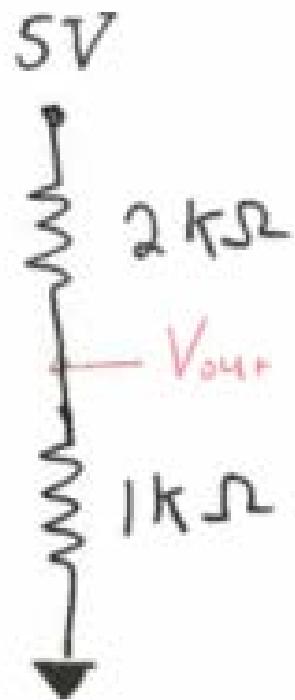
b) $i \approx \frac{1}{1,000,000}$ Amps $\approx 1 \mu\text{A}$

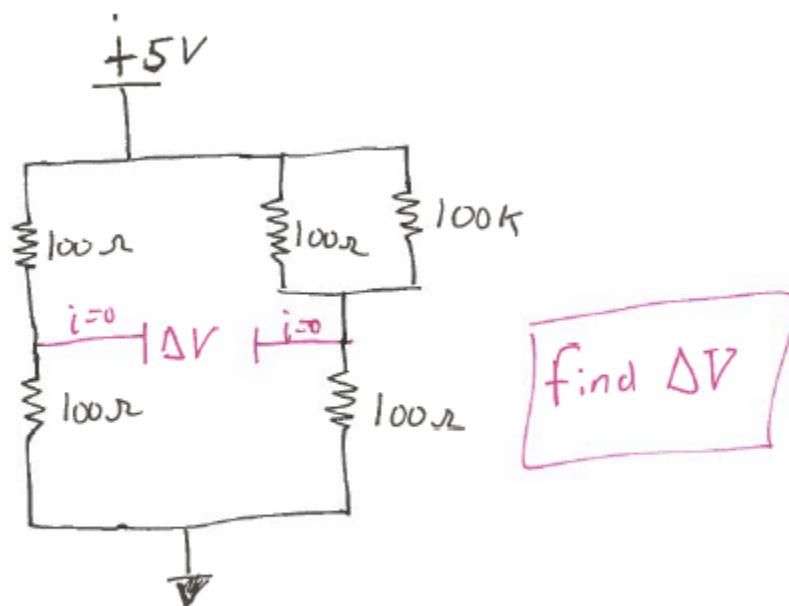
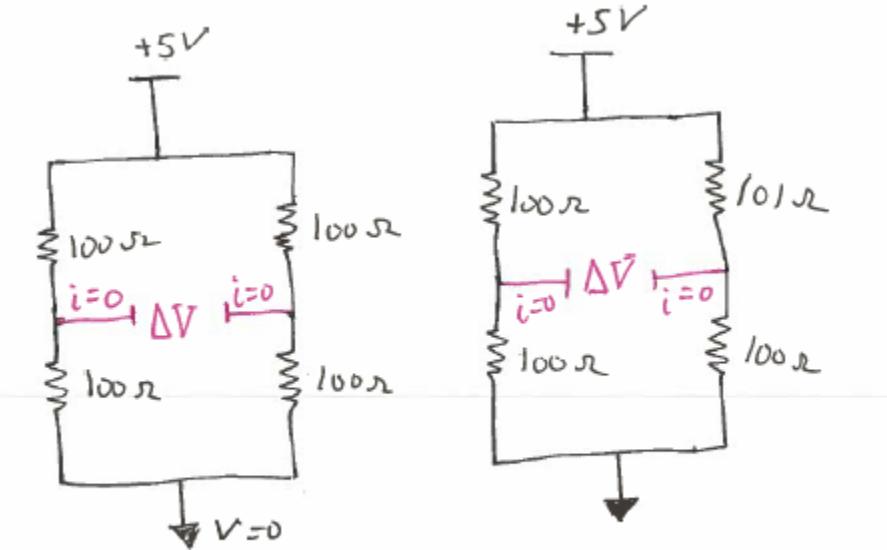
c) $i \approx \frac{1}{10^9}$ Amps $\approx 1 \text{ nA}$

d) $i \approx 1 \text{ Amp}$

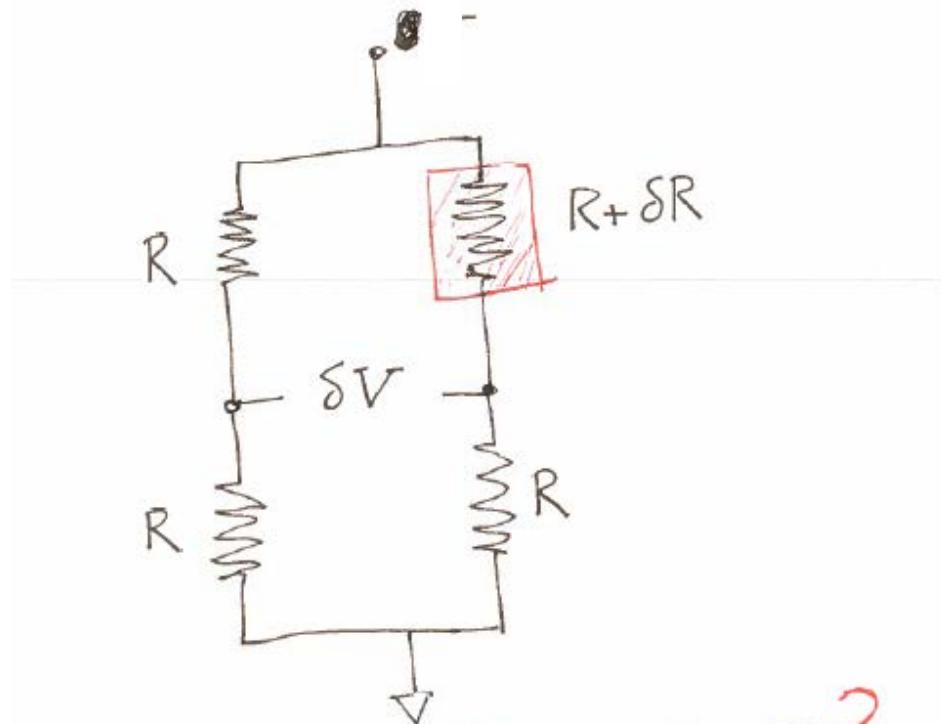


Get a head start on Lab 2...





Bridge circuit



If we measure δV what is δR ?

$$\frac{\delta R}{R} = \frac{\delta V}{V} \left(\text{q} \right)$$

find this