

# Activity - Practice with Complex Circuits

$$V = IR$$

## Part I

In the circuits below, the voltage of the battery is 12 V and each resistor is  $2 \Omega$ . For each circuit:

- Describe the circuit and any assumptions you make. Which resistors are in series? Which are in parallel?
- Calculate the current through each resistor and the voltage across each resistor.

Total:  $8 + 2 = 10$

$$A = \frac{2 \Omega}{4.67} (12)$$

5.13

$$2 + 2 = 4 \Omega \text{ (series)} \quad \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2} = \frac{2}{3} \text{ (parallel)}$$

$$4 + \frac{2}{3} = 4.67 \Omega = \text{total}$$

Series:  $2 + 2 + 2 + 2 = 8 \Omega$   
 Parallel:  $\frac{1}{2} = 2 \Omega$   
 $V = IR \rightarrow I = \frac{V}{R} = \frac{12}{10} = 1.2 \text{ A}$

$$V = IR$$

$$I = \frac{V}{R} = \frac{12}{4.67}$$

$$I = 2.57$$

$$\frac{2.57 \text{ A}}{3} = 0.86 \text{ A}$$

$$V = IR$$

$$V = (0.86) \left(\frac{2}{3}\right)$$

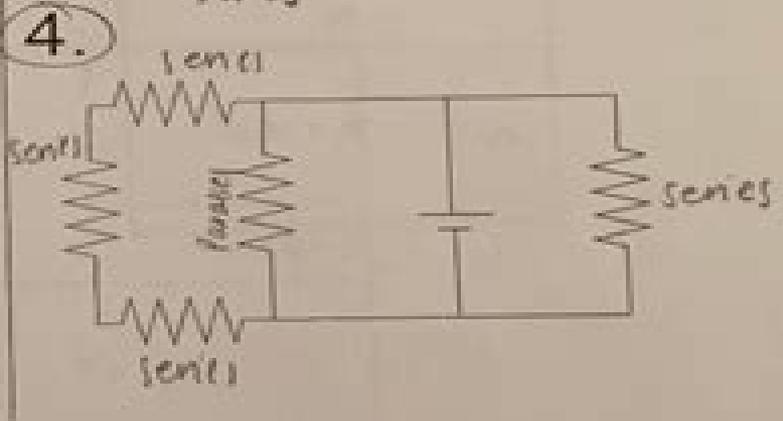
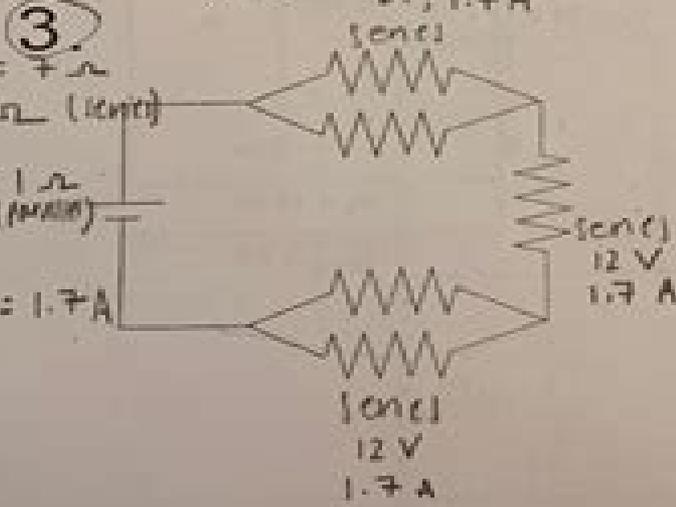
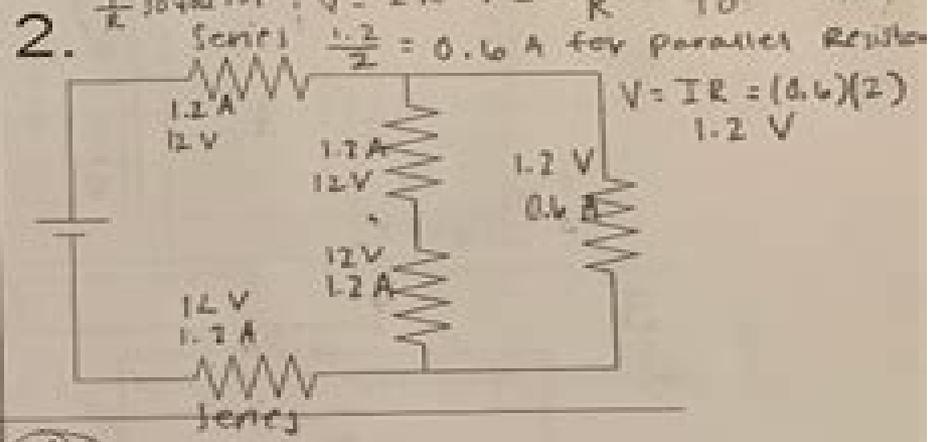
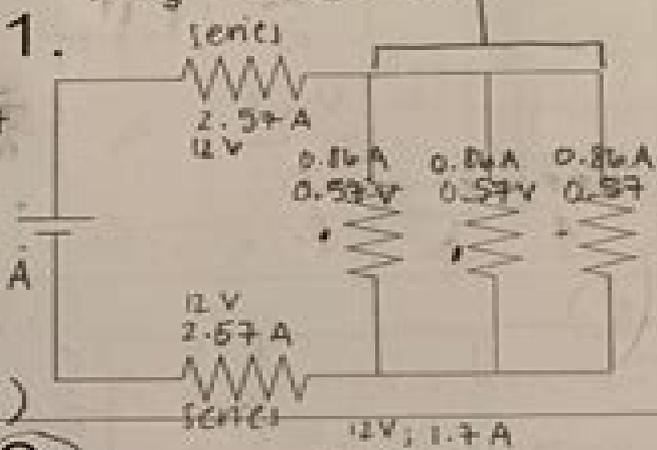
$$V = 0.57 \text{ V}$$

3  
 Total R =  $6 + 1 = 7 \Omega$   
 $2 + 2 + 2 = 6 \Omega$  (series)

$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1 \Omega \text{ (parallel)}$$

$$V = IR$$

$$I = \frac{V}{R} = \frac{12}{7} = 1.7 \text{ A}$$



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**Ian Pickup**



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