

# 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:  $8 + 2 = 10$

Series:  $2 + 2 + 2 + 2 = 8 \Omega$

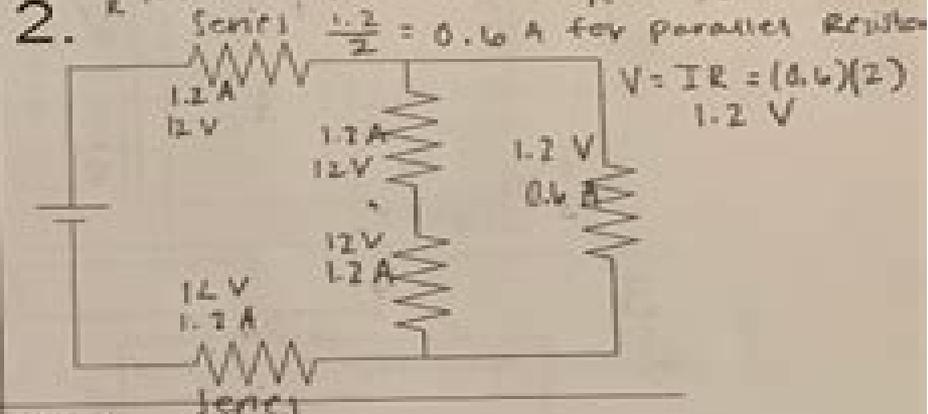
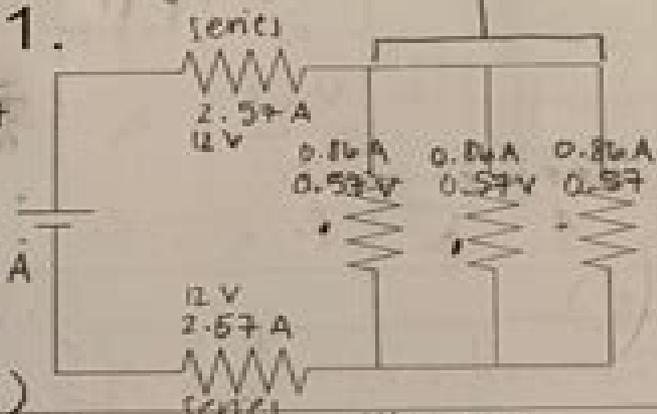
Parallel:  $\frac{1}{2} = 2 \Omega$

$V = IR \rightarrow I = \frac{V}{R} = \frac{12}{10} = 1.2 A$

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

5.13

$2 + 2 = 4 \Omega$  (series)  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2} = \frac{2}{3}$  (parallel)  
 $4 + \frac{2}{3} = 4.67 \Omega = \text{total}$



$V = IR$   
 $I = \frac{V}{R} = \frac{12}{4.67}$   
 $I = 2.57$

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

$V = IR$   
 $V = (0.86) (2)$   
 $V = 1.72 V$

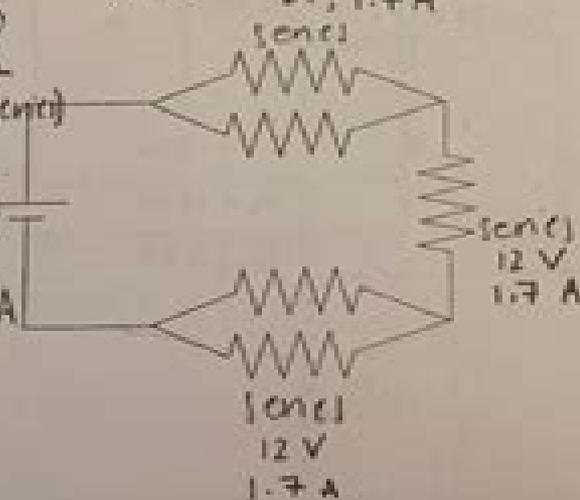
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Total R = 6 + 1 = 7  $\Omega$

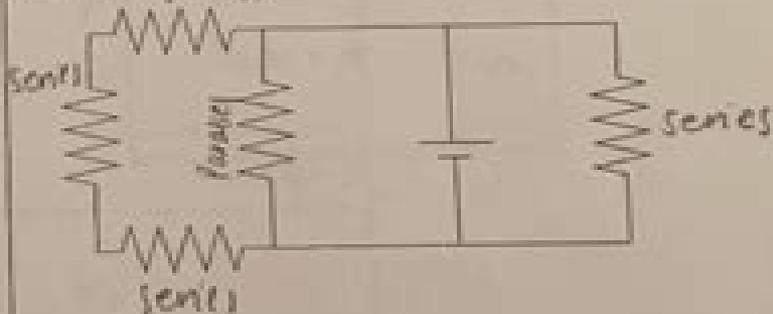
$2 + 2 + 2 = 6 \Omega$  (series)

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

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



4



# Circuits Circuit Analysis Answers Aplusphysics

**Lei Huang**



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