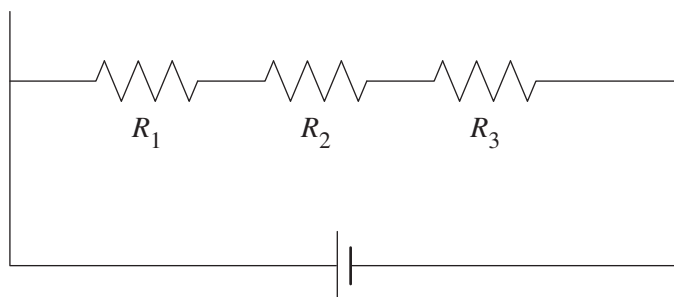


**Question 7** (8 marks)

- a. Figure 2 shows a circuit with three resistors in series.

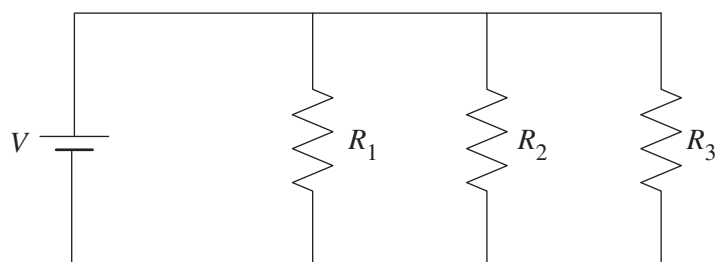
**Figure 2**

Complete the table below by filling in the missing values.

4 marks

Resistor	Resistance ( $\Omega$ )	Current (A)	Voltage (V)
$R_1$	30		
$R_2$	10		
$R_3$	20		
<b>Total</b>			12

- b. Consider the circuit shown in Figure 3.

**Figure 3**

Complete the table below by filling in the missing values.

4 marks

Resistor	Resistance ( $\Omega$ )	Current (A)	Voltage (V)
$R_1$	30		
$R_2$	10		
$R_3$	20		
<b>Total</b>			12