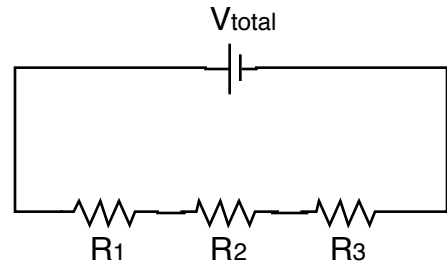


## Circuit Worksheet

For each of the given circuits, calculate the equivalent resistance. Then, calculate the total current. Finally, calculate the individual currents and voltages for each resistor.

### Circuit 1



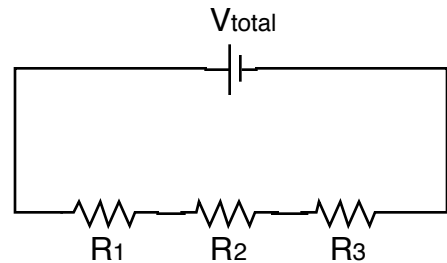
	$R$	$I$	$V$	
$R_1$	$3 \Omega$			$V_{\text{total}} = 9 \text{ v}$
$R_2$	$3 \Omega$			$I_{\text{total}} =$
$R_3$	$3 \Omega$			$R_{\text{total}} =$

### Circuit 2



	$R$	$I$	$V$	
$R_1$	$12 \Omega$			$V_{\text{total}} = 6 \text{ v}$
$R_2$	$12 \Omega$			$I_{\text{total}} =$
$R_3$	$12 \Omega$			$R_{\text{total}} =$

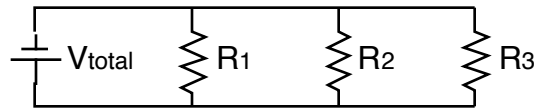
### Circuit 3



	$R$	$I$	$V$	
$R_1$	$4 \Omega$			$V_{\text{total}} = 9 \text{ v}$
$R_2$	$8 \Omega$			$I_{\text{total}} =$
$R_3$	$6 \Omega$			$R_{\text{total}} =$

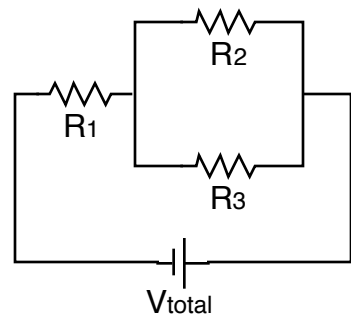
## Circuit Worksheet

### Circuit 4



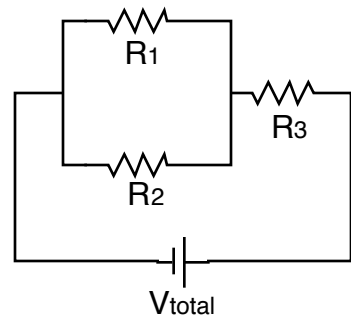
	<i>R</i>	<i>I</i>	<i>V</i>	
$R_1$	$6\ \Omega$			$V_{\text{total}} = 6\ \text{v}$
$R_2$	$12\ \Omega$			$I_{\text{total}} =$
$R_3$	$3\ \Omega$			$R_{\text{total}} =$

### Circuit 5



	<i>R</i>	<i>I</i>	<i>V</i>	
$R_1$	$4\ \Omega$			$V_{\text{total}} = 12\ \text{v}$
$R_2$	$4\ \Omega$			$I_{\text{total}} =$
$R_3$	$4\ \Omega$			$R_{\text{total}} =$

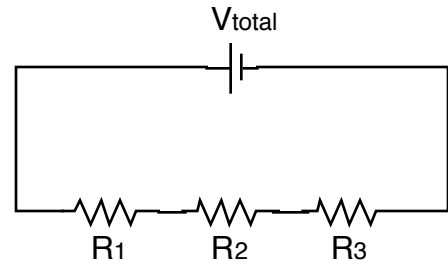
### Circuit 6



	<i>R</i>	<i>I</i>	<i>V</i>	
$R_1$	$6\ \Omega$			$V_{\text{total}} = 9\ \text{v}$
$R_2$	$3\ \Omega$			$I_{\text{total}} =$
$R_3$	$7\ \Omega$			$R_{\text{total}} =$

## Circuit Worksheet

### Circuit 7



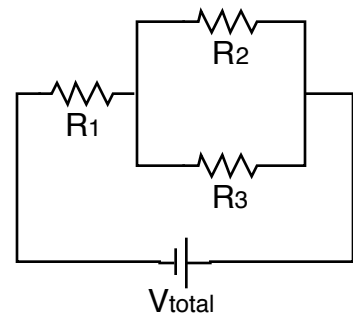
	$R$	$I$	$V$	
$R_1$			2 v	$V_{total} =$
$R_2$			10 v	$I_{total} = 2 \text{ a}$
$R_3$	3 $\Omega$			$R_{total} = 9 \Omega$

### Circuit 8



	$R$	$I$	$V$	
$R_1$	8 $\Omega$			$V_{total} =$
$R_2$		2 a		$I_{total} = 4 \text{ a}$
$R_3$				$R_{total} = 1 \Omega$

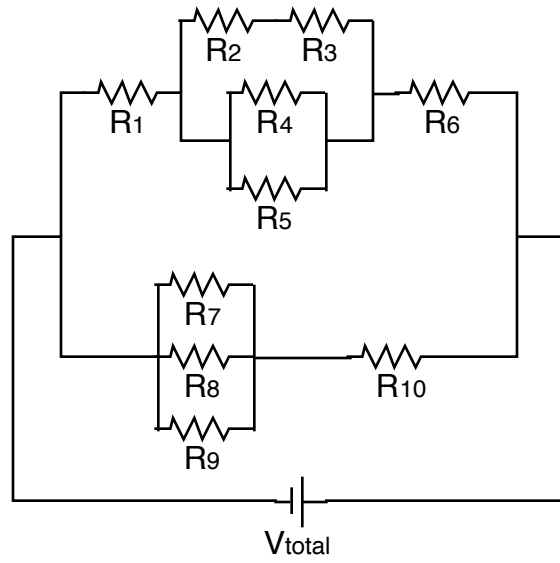
### Circuit 9



	$R$	$I$	$V$	
$R_1$			4 v	$V_{total} =$
$R_2$	4 $\Omega$			$I_{total} = 3 \text{ a}$
$R_3$			8 v	$R_{total} =$

# Circuit Worksheet

## Circuit 10



	<i>R</i>	<i>I</i>	<i>V</i>	
R <sub>1</sub>	1 Ω			V <sub>total</sub> = 18 v
R <sub>2</sub>	3 Ω			I <sub>total</sub> =
R <sub>3</sub>	5 Ω			R <sub>total</sub> =
R <sub>4</sub>	2 Ω			
R <sub>5</sub>	4 Ω			
R <sub>6</sub>	3 Ω			
R <sub>7</sub>	5 Ω			
R <sub>8</sub>	5 Ω			
R <sub>9</sub>	10 Ω			
R <sub>10</sub>	7 Ω			