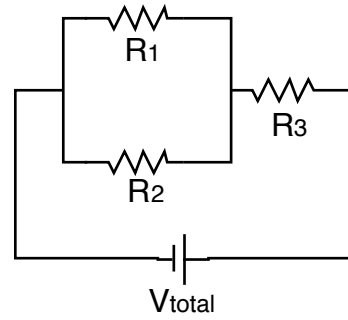


## Compound Circuits

Fill in the missing information for each of the given circuits

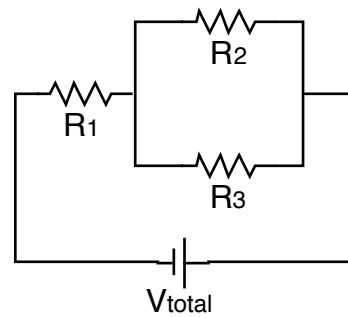
**Circuit 1**

	R	I	V	
R <sub>1</sub>	2 Ω	1 A		V <sub>t</sub> =
R <sub>2</sub>				I <sub>t</sub> =
R <sub>3</sub>	2 Ω	3 A		R <sub>t</sub> =



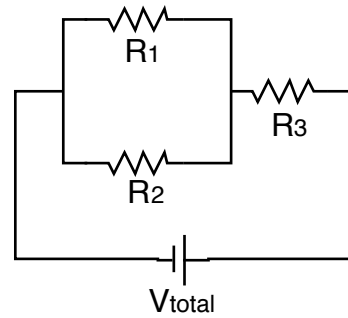
**Circuit 2**

	R	I	V	
R <sub>1</sub>	4 Ω			V <sub>t</sub> = 12 V
R <sub>2</sub>			4 V	I <sub>t</sub> =
R <sub>3</sub>	4 Ω			R <sub>t</sub> =



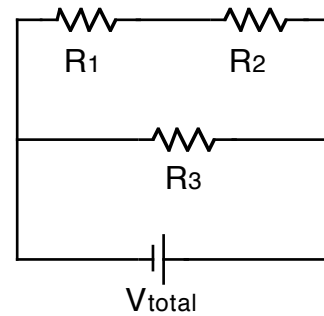
**Circuit 3**

	R	I	V	
R <sub>1</sub>	4 Ω			V <sub>t</sub> =
R <sub>2</sub>			8 V	I <sub>t</sub> = 3 A
R <sub>3</sub>			4 V	R <sub>t</sub> =



**Circuit 4**

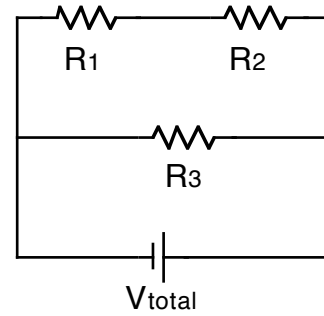
	R	I	V	
R <sub>1</sub>	1 Ω			V <sub>t</sub> = 6 V
R <sub>2</sub>				I <sub>t</sub> = 3 A
R <sub>3</sub>	6 Ω			R <sub>t</sub> =



## Compound Circuits

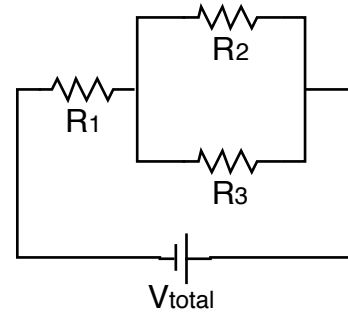
**Circuit 5**

	$R$	$I$	$V$	
$R_1$	$2 \Omega$	$2 \text{ A}$		$V_t =$
$R_2$	$4 \Omega$			$I_t =$
$R_3$		$4 \text{ A}$		$R_t =$



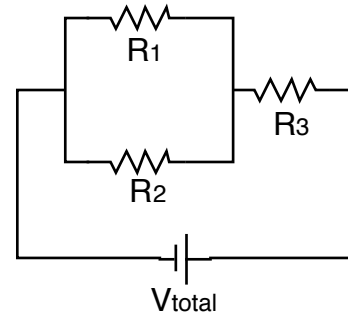
**Circuit 6**

	$R$	$I$	$V$	
$R_1$	$6 \Omega$			$V_t = 6 \text{ V}$
$R_2$		$1/6 \text{ A}$		$I_t = 2/3 \text{ A}$
$R_3$				$R_t =$



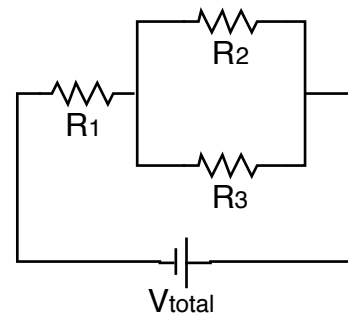
**Circuit 7**

	$R$	$I$	$V$	
$R_1$				$V_t = 3 \text{ V}$
$R_2$		$1/12 \text{ A}$		$I_t = 1/3 \text{ A}$
$R_3$	$6 \Omega$			$R_t =$



**Circuit 8**

	$R$	$I$	$V$	
$R_1$	$3 \Omega$			$V_t = 12 \text{ V}$
$R_2$	$6 \Omega$			$I_t =$
$R_3$	$6 \Omega$			$R_t =$



*Hint: calculate the total resistance of  $R_2$  &  $R_3$  first.*