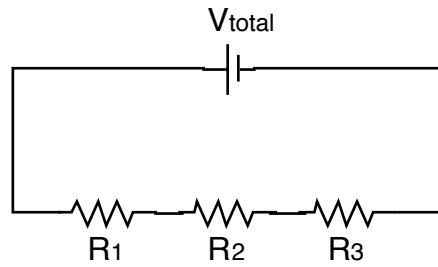


Series Circuits

The following problems are all based on the following series circuit. For each problem, find all the missing numbers.



Circuit 1

	R	I	V	
R_1	3Ω			$V_t = 9 \text{ V}$
R_2	3Ω			$I_t =$
R_3	3Ω			$R_t =$

Circuit 2

	R	I	V	
R_1	12Ω			$V_t =$
R_2	12Ω			$I_t = 2 \text{ A}$
R_3	12Ω			$R_t =$

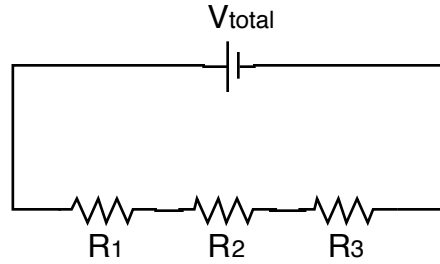
Circuit 3

	R	I	V	
R_1	4Ω			$V_t = 9 \text{ V}$
R_2	8Ω			$I_t =$
R_3	6Ω			$R_t =$

Circuit 4

	R	I	V	
R_1	6Ω			$V_t =$
R_2	12Ω			$I_t = 3 \text{ A}$
R_3				$R_t = 20 \Omega$

Series Circuits



Circuit 5

	R	I	V	
R_1	4Ω			$V_t = 12 \text{ V}$
R_2		1 A		$I_t =$
R_3			5 V	$R_t =$

Circuit 6

	R	I	V	
R_1		0.5 A		$V_t = 11 \text{ V}$
R_2			4 V	$I_t =$
R_3			6 V	$R_t =$

Circuit 7

	R	I	V	
R_1			2 V	$V_t =$
R_2			10 V	$I_t = 2 \text{ A}$
R_3	3Ω			$R_t = 9 \Omega$

Circuit 8

	R	I	V	
R_1	8Ω			$V_t =$
R_2				$I_t = 3 \text{ A}$
R_3			12 V	$R_t = 20 \Omega$