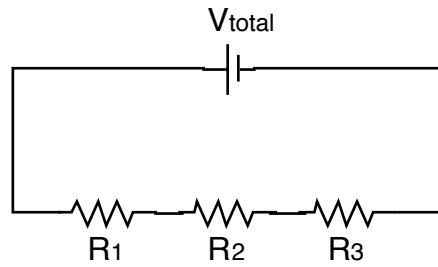


Series Circuits

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	$3\ \Omega$			$V_t = 9\ \text{V}$
R_2	$3\ \Omega$			$I_t =$
R_3	$3\ \Omega$			$R_t =$

Circuit 2

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

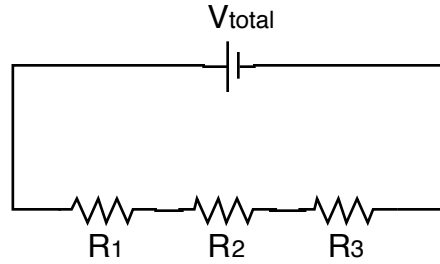
Circuit 3

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

Circuit 4

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

Series Circuits



Circuit 5

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

Circuit 6

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

Circuit 7

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

Circuit 8

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