

Parallel Circuits

$I = V/R$

$1/R_t = 1/R_1 + 1/R_2 + 1/R_3$

1) Adding more resistors in SERIES will _____ total resistance, while adding more resistors in PARALLEL will _____ total resistance.

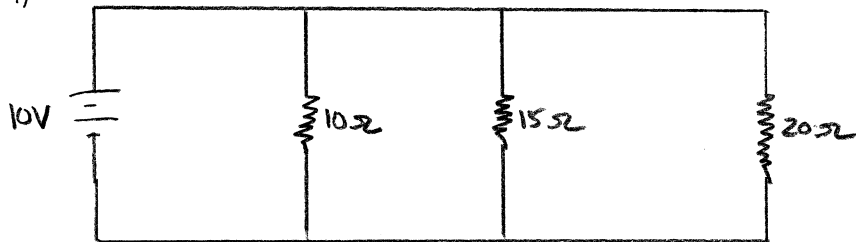
2) (MC) Which is the same everywhere in parallel circuits?

- A) Voltage B) Current C) Resistance

3) If you unplug one bulb from a 3 bulb parallel circuit, the other 2 bulbs will:

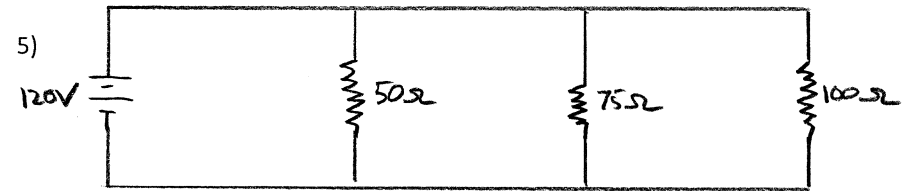
_____.

4)



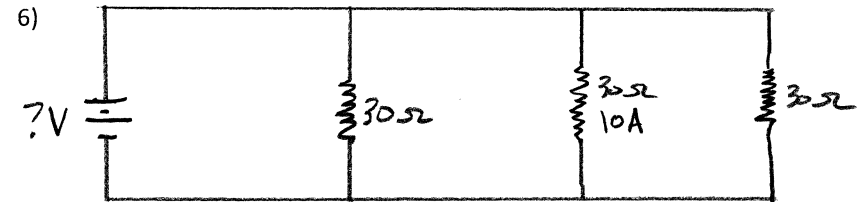
	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1			10
R2			15
R3			20
Total	10		

5)



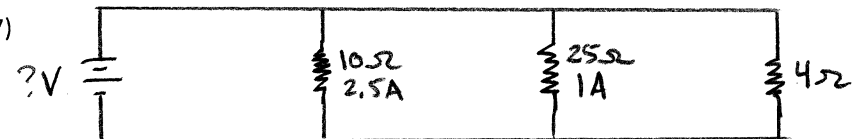
	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1	120		50
R2	120		75
R3	120		100
Total	120		

6)



	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1			30
R2		10	30
R3			30
Total			

7)



	Voltage (Volts)	Current (Amps)	Resistance (ohms)
R1		2.5	10
R2		1.0	25
R3			4
Total		10	