

Current in Series Circuits I

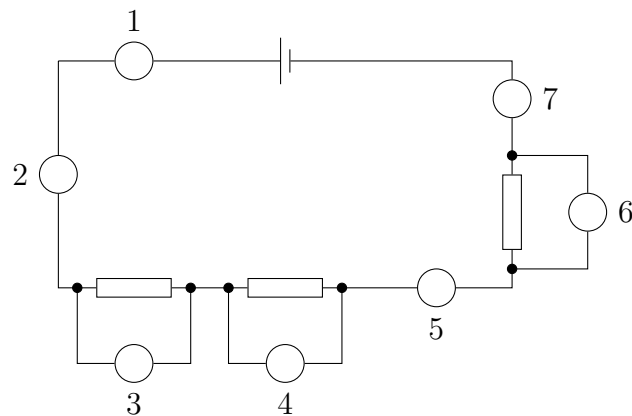
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1. Copy out and complete the following sentences:

- (a) In a series circuit, the current is the ... at all points in the circuit.
- (b) In a series circuit, if the voltages across all the components in the circuit are added up, they equal the voltage of the

2. The following is a series circuit, with meters and resistors in.



- (a) What is the name of the meter that measures current?
- (b) What is the name of the meter that measures voltage?
- (c) Which, of 1 to 7, measure current?
- (d) Which, of 1 to 7, measure voltage?

The power supply is a 20 V supply; meter 1 reads 5 A and meters 3 and 6 both read 6 V.

- (e) What does...
 - i. ...meter 2 read?
 - ii. ...meter 5 read?
 - iii. ...meter 7 read?
 - iv. ...meter 4 read?