

Current in Parallel Circuits I

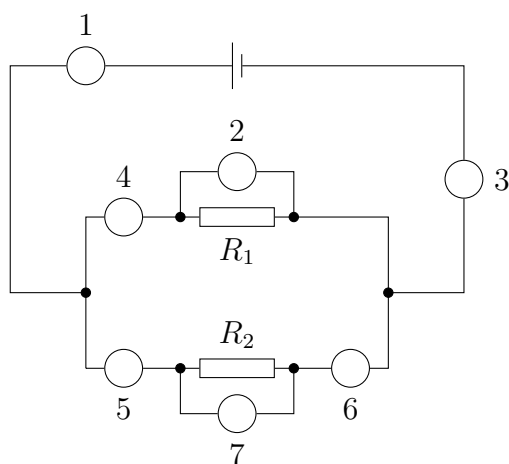
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1. Copy out and complete the following sentences:

- (a) In a parallel circuit, the voltage across all the components ... the voltage across the ...
- (b) In a parallel circuit, at any junction, the current going in to the junction ... the total of all the currents leaving the junction.

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



- (a) Which of the meters are
 - i. ammeters?
 - ii. voltmeters?
- (b) Meter 1 reads 3 A, meter 5 reads 2 A, and the power supply is a 12 V supply. What does
 - i. meter 2 read?
 - ii. meter 3 read?
 - iii. meter 4 read?
 - iv. meter 6 read?
 - v. meter 7 read?
- (c) Which resistor, R_1 or R_2 , has the largest resistance?