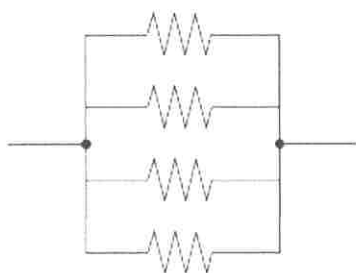


ELECTRIC CIRCUITS 2

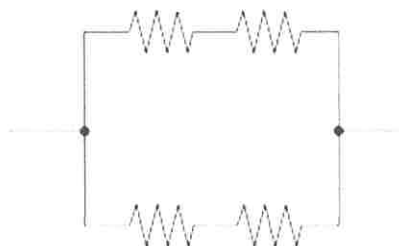
1.

Which arrangement of four identical resistors has the highest equivalent resistance?

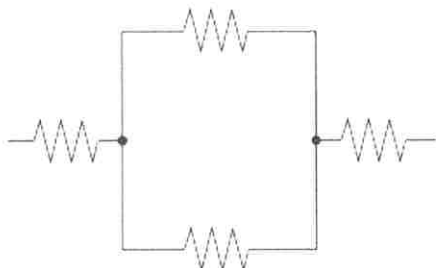
A.



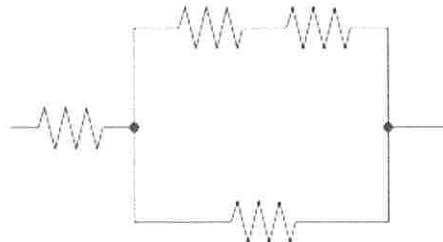
B.



C.



D.



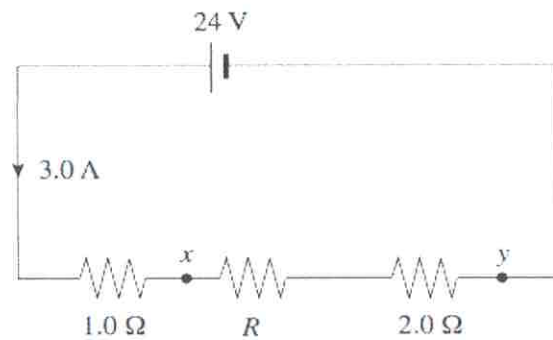
2.

A student is instructed to determine the amount of charge flowing past a point in a circuit of unknown resistance during an experiment. What equipment will permit the student to do this?

- A. voltmeter
- B. ammeter, voltmeter
- C. ammeter, stopwatch
- D. voltmeter, stopwatch

3.

A series circuit consists of a battery and three resistors arranged as shown in the diagram below.

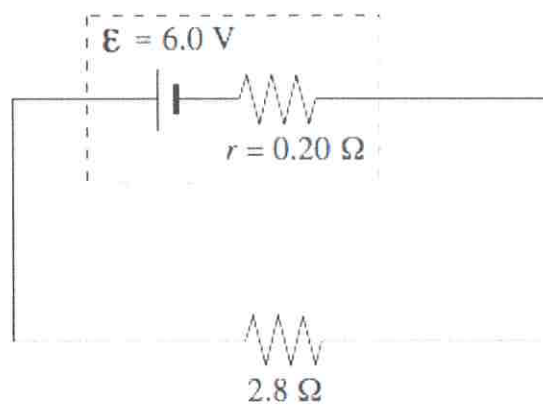


What is the potential difference V_{xy} ?

- A. 3.0 V
- B. 6.0 V
- C. 9.0 V
- D. 21 V

4.

What is the battery's terminal voltage in the circuit below?



- A. 0.40 V
- B. 5.6 V
- C. 6.0 V
- D. 6.4 V