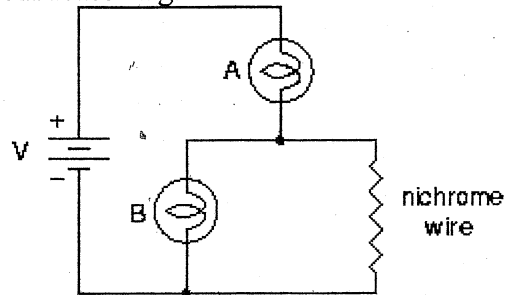


8. WEEK 8

9. Consider the circuit shown below. If we make the nichrome wire longer, what happens to the

- (A) Equivalent resistance of the (bulb B + wire) combination?
- (B) Current through bulb A?
- (C) Voltage across bulb B?
- (D) Voltage across bulb A?
- (E) Current through bulb B?

In each case, explain your reasoning.



10. All bulbs are identical in the circuit shown. The voltage across bulb D is 1.0 volt. The battery voltage is 6.0 V. Find the voltage drops across bulbs A, B, and C.

