Quiz 7 10 MIN **ROOM: EM1304** **https://socrative.com**
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1. A car moves from west to east on a flat road (Dallas). Which statement is correct?
   A. The electric potential of the driver side is higher than that of the passenger side.
   B. The electric potential of the driver side is lower than that of the passenger side.
   C. The electric potential on top of the car is higher than that of bottom of the car.
   D. The electric potential on top of the car is lower than that of bottom of the car.

2. In an *RL* circuit, when the current has sudden change, you can treat the inductor
   A. as open B. as short
   C. as a resistor D. as a capacitor

3. In an *LC* circuit with the capacitor initially charged to *Q*, the maximuim current in the system is
   A. Q/L B. Q/C
   C. $Q/\sqrt{LC}$ D. $Q/\Delta V$

4. Choose all the statements that are correct. In an AC circuit ,
   A. the current in a capacitor leads the voltage by 90 degrees
   B. the current in a resistor is in phase with the voltage
   C. the voltage in an inductor leads the current by 90 degrees
   D. the Ohm's Law is no longer valid for a resistor.