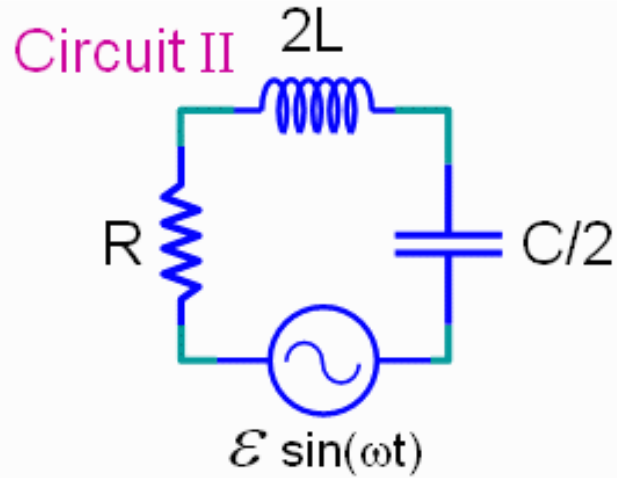
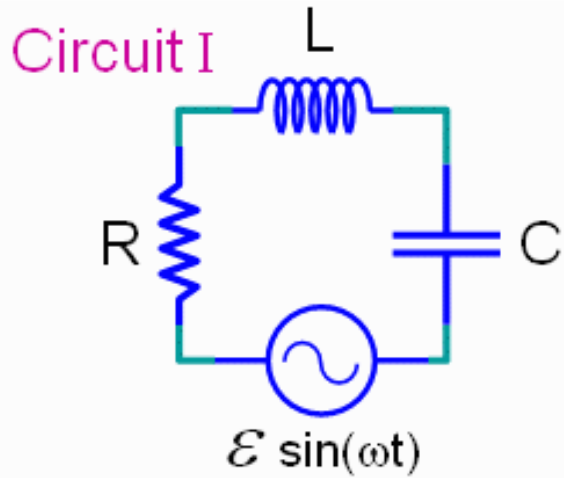


# CheckPoint 1a



Consider two RLC circuits with identical generators and resistors. Both circuits are driven at the resonant frequency. Circuit II has twice the inductance and 1/2 the capacitance of circuit I as shown above.

Compare the peak voltage across the resistor in the two circuits

- A.**  $V_I > V_{II}$       **B.**  $V_I = V_{II}$       **C.**  $V_I < V_{II}$

Resonance:  $X_L = X_C$   
 $Z = R$

Same since  $R$  doesn't change

Resonant Circuits: Question 1 (N = 813)

