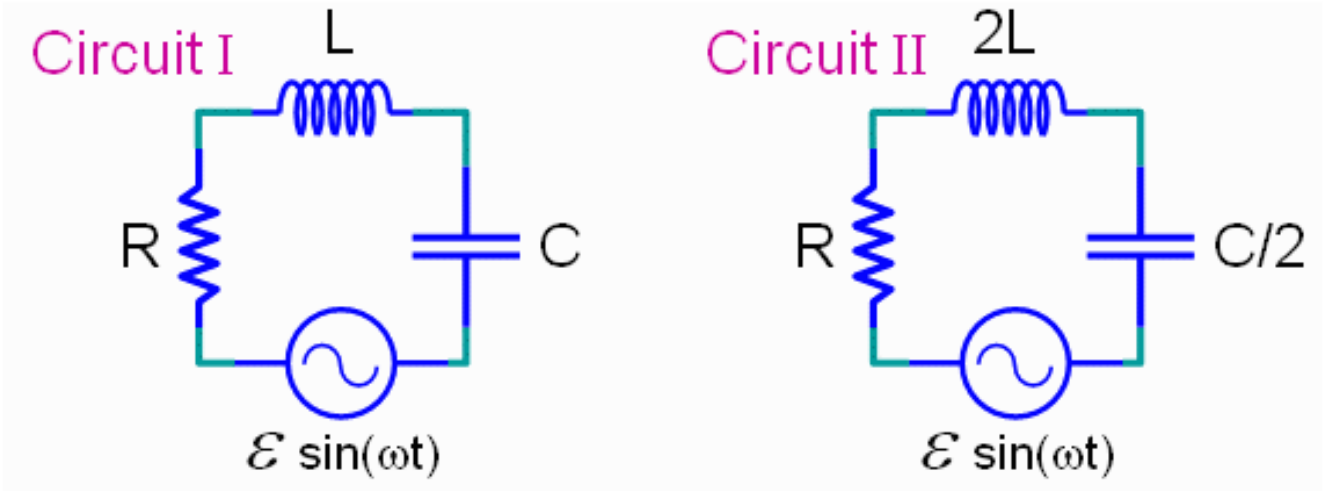
CheckPoint 1b

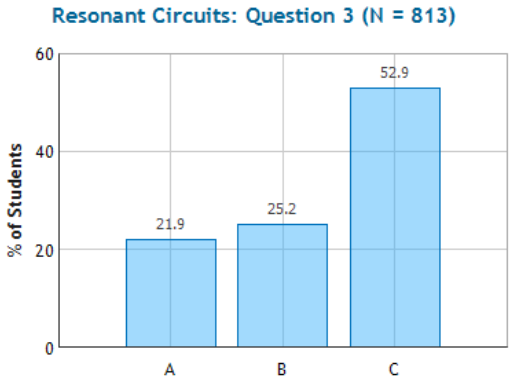


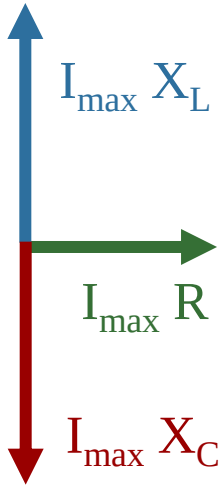
Consider two RLC circuits with identical generators and resistors. Both circuits are driven at the resonant frequency. Circuit II has twice the inductance and 1/2 the capacitance of circuit I as shown

Compare the peak voltage <u>across the inductor</u> in the two circuits

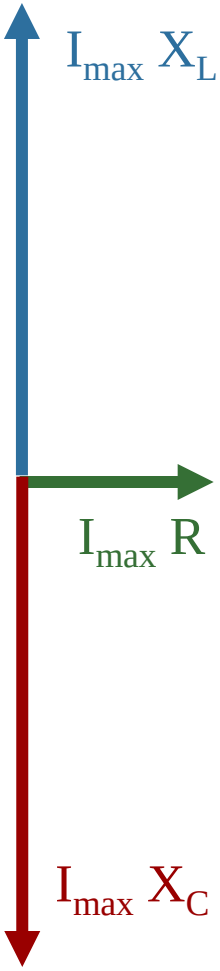
A. $V_I > V_{II}$ ***B.*** $V_I = V_{II}$ ***C.*** $V_I < V_{II}$

Voltage in second circuit will be twice that of the first because of the $2L$ compared to L.





Case 1



Case 2