

Name _____ Disc _____

PY212

Quiz 9

A $20.0\ \mu\text{F}$ capacitor is charged by a $150.0\ \text{V}$ power supply, then disconnected from the power and connected in series with a 0.280-mH inductor. Calculate:

- a) the oscillation frequency f of the circuit

- b) the energy stored in the capacitor at time $t=0\ \text{ms}$ (the moment of connection with the inductor)

- c) the energy stored in the inductor at time $t= 1.30\ \text{ms}$