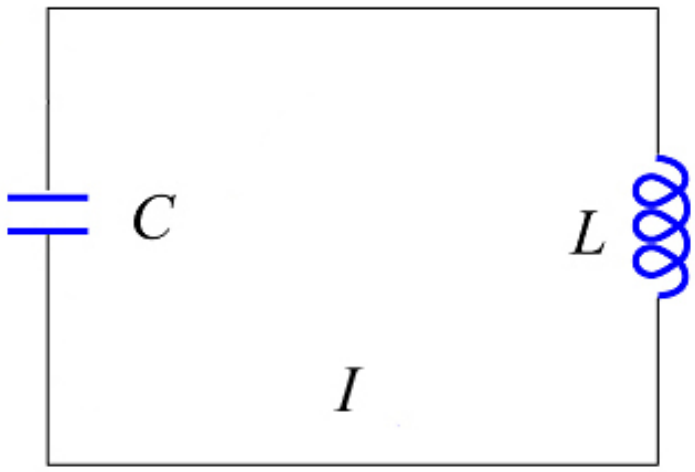
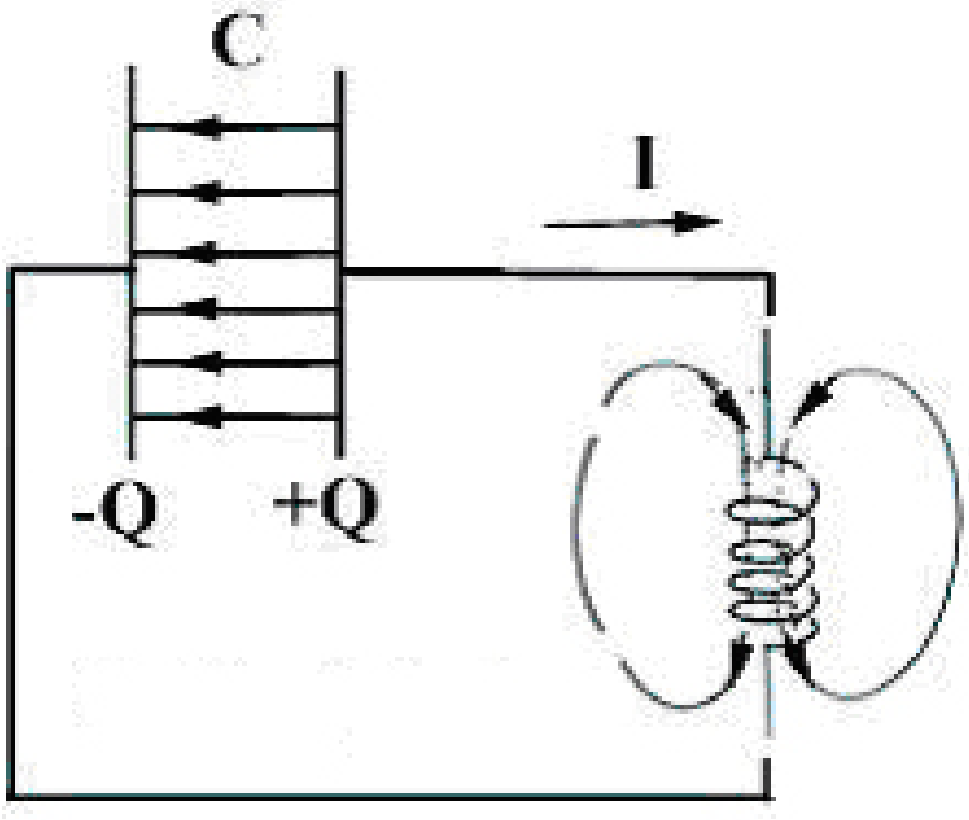


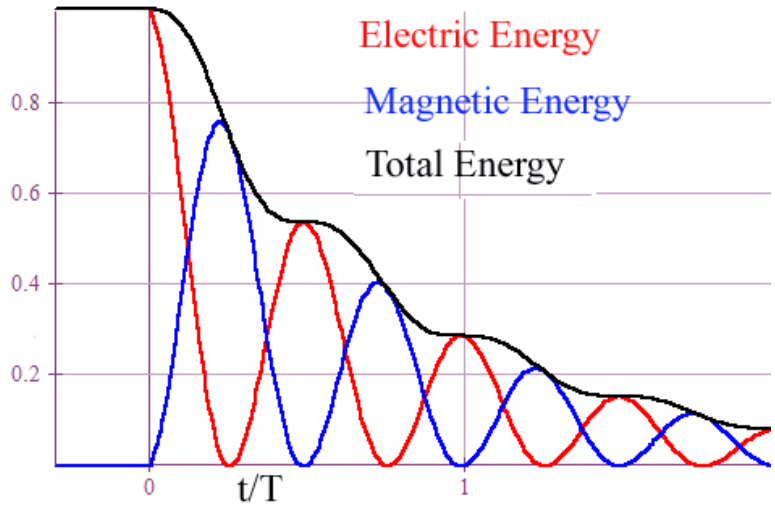
Consider the above LC circuit. At the time shown the current has its maximum value. At this time

1. **The charge on the capacitor has its maximum value**
2. **The magnetic field is zero**
3. **The electric field has its maximum value**
4. **The charge on the capacitor is zero**
5. **Don’t have a clue**



In the above LC circuit the current is in the direction shown and the charges on the capacitor have the signs shown. At this time,

1. **I is increasing and Q is increasing**
2. **I is increasing and Q is decreasing**
3. **I is decreasing and Q is increasing**
4. **I is decreasing and Q is decreasing**
5. **Don't have a clue**



At *t = 0*, a fully charged capacitor begins discharging through an inductor and a resistor. The plot shows the time behavior of the electric and magnetic energies in the circuit, and their sum. The total energy in the circuit decreases most rapidly when

1. **The absolute value of the current is a maximum**
2. **The current is zero**
3. **Neither, since the current decreases at an exponential rate.**
4. **Don't have a clue**