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