Prelab 4 Homework

Phys 276

Spring 2015

Prof. Anlage

- 1. Suppose you create a circuit with a 10 nH inductor and a 10 kilo-ohm resistor in series. What is the time constant (the time it takes for the charge on the inductor to drop by 1/e) of the circuit?
- 2. In the circuit shown in Fig. IV-8 of the *Experiment 4* description, what can you say about the sum of the voltage drops on the inductor and resistor?