Prelab 3 Homework

Phys 276

Spring 2015

Prof. Anlage

1. Suppose you create a circuit with a 0.1 microfarad capacitor and a 10 kilo-ohm resistor in series. What is the time constant (the time it takes for the charge on the capacitor to drop by 1/e) of the circuit?

2. Explain briefly how a low-pass filter works.