

Laboratory 4– 2016

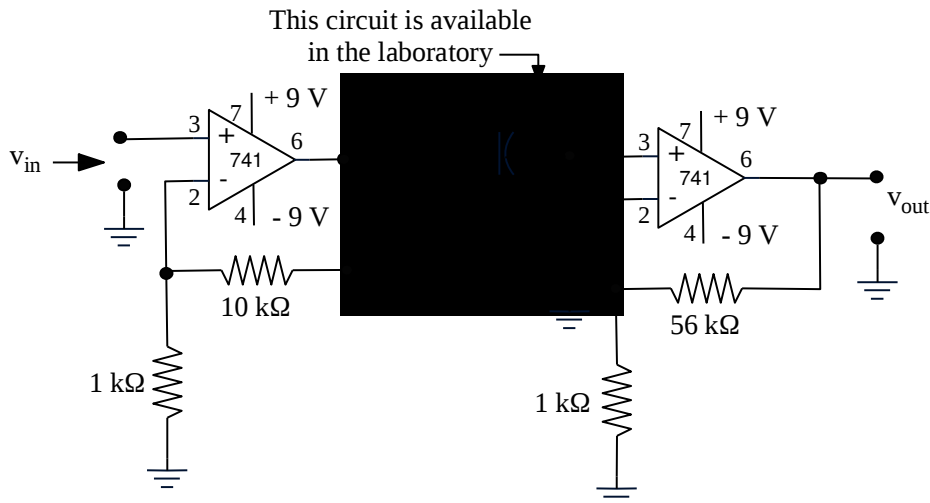


Figure 1: An operational amplifier circuit

1. Build and analyse the circuit in Figure 1 and then measure the voltages (use an oscilloscope) across the 10 mH inductor, 3.3 nF capacitor and the 10 Ω resistor. Let the input signal be a 15 kHz sine wave with a voltage of 0,1 V_{p-p}. Relate your measurements to your theoretical analysis of the circuit.
2. Measure and calculate the resonant frequency of the LCR circuit and comment on your observations.