REQUIREMENTS NOT MET

- **Requirement 1:** The requirement was not met because of this reason.
- **Requirement 2:** The requirement was not met because of this reason.
- **Requirement 3:** The requirement was not met because of this reason.

PROBLEMS ENCOUNTERED

- **Problem 1:** The problem was encountered because of this reason.
- **Problem 2:** The problem was encountered because of this reason.
- **Problem 3:** The problem was encountered because of this reason.

INTRODUCTION

Now we start our introduction to our write up For your write up, write a brief introduction to what you are doing in the in lab. two to four sentences. Omit this section for the prelab.

DISCUSSION

9.5 Pre-Lab Requirements:

9.5.1 LTSpice Simulations:

1. Review AC Analysis in LTSpice
2. Build a simple lowpass filter, Figure 9.2a, but set R = 10 k Ohm and C = 0.001 μF. Set the voltage source to an AC amplitude of 1 and run an AC analysis with the following settings: Decade, 100, 1, 1Meg. Save an image of the circuit, a plot of the output, and table the 3 dB frequency for submission.

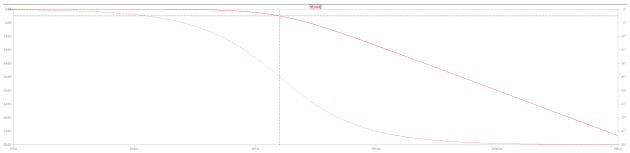

Figure 1: Plot of Low Pass Filter

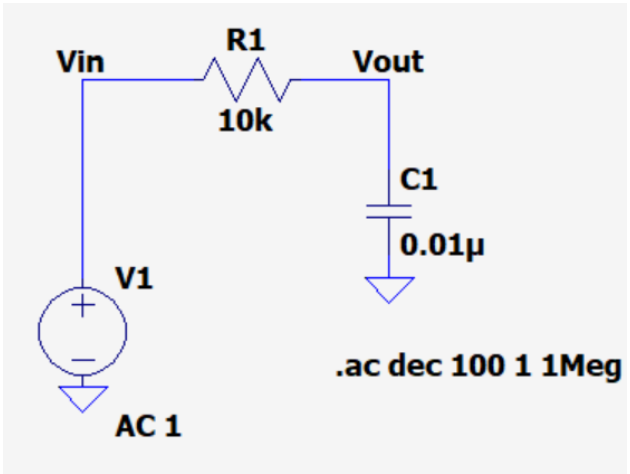

Figure 2: Circuit of Low Pass Filter

LOW-PASS	1.6 kHz	45 deg

3. High Pass Filter

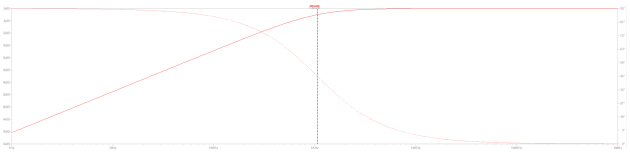

Figure 3: Plot of High Pass Filter

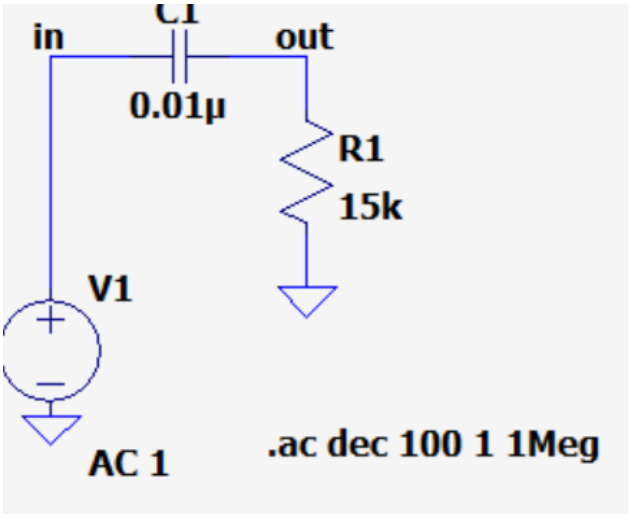

Figure 4: Circuit of High Pass Filter

HIGH-PASS	1.063 kHz	45 deg

4. Active Low Pass Filter with $R = 1k\Omega$ and $C = 0.1\mu F$

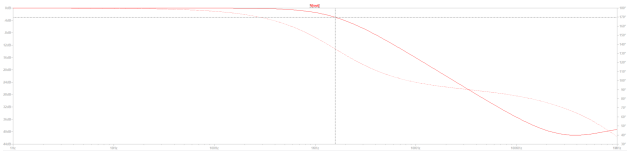

Figure 5: Plot of Active Low Pass Filter

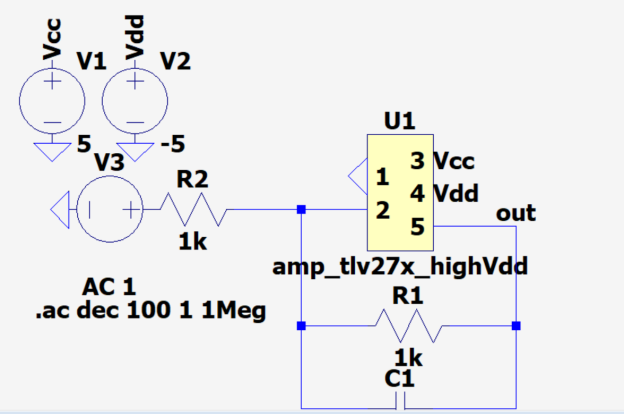

Figure 6: Circuit of Active Low Pass Filter

ACTIVE LOW-PASS	1.59 kHz	45 deg

CONCLUSION

This is where I start to answer the questions in the lab. We only need to do this for the write up.