

Editor Name:	For:	Excellent	Poor	Possible Points	Score	Comments			
	1. Clearly calculate the expected resonant frequency, and the resistor values for critical- and overdamped responses.	5	4	3	2	1	0	5	
	2. Determine the resonant frequency through measurements and observations and clearly state the experimental resonant frequency and how it was found.	5	4	3	2	1	0	5	
	3. For the square wave input, include graphs and a discussion of the circuit behavior at various input frequencies, clearly drawn and labeled, and a sufficient number of graphs to completely represent the circuit's behavior through the range of test frequencies	5	4	3	2	1	0	10	
	4. Include graphs and discussion to clearly explain the effect of R_{crit} , and $R_{overdamped}$ on the circuit behavior, including a clear discussion of the difference of the effect of these two resistor values, and data as needed.	5	4	3	2	1	0	10	
	5. Discusses how the value of the resistance affects the damping of the circuit response in general, and how this can be used in circuit design (Q3 at end)	5	4	3	2	1	0	10	
	6. For the sinewave input, includes all the requested data tables, a discussion of how the data was gathered, with graphs of the circuit voltages as needed for clarity.	5	4	3	2	1	0	10	
	7. Includes well labeled plots of the voltage magnitudes that are discussed and explained in the text of the report.	5	4	3	2	1	0	10	
	8. Explains why the voltage across the series combination of the capacitor and the inductor is a minimum at resonance.	5	4	3	2	1	0	5	
	9. Explains how it is possible for the voltage across the capacitor to exceed the source voltage. Calculates theoretical capacitor voltage magnitude at resonance.	5	4	3	2	1	0	5	
	10. Discusses the concept of resonance in a qualitative context so as to describe the phenomena to a friend.	5	4	3	2	1	0	5	
	11. Writing is clear, concise, logical, with sufficient detail, free from casual language, with no grammatical errors or awkward sentence construction. Follows appropriate format overall, is professional looking, typed, appropriately collated. Each section is clearly identified with a section header, including an objective not directly from the lab handout, and an abstract. Each section has appropriate content.	5	4	3	2	1	0	15	
	12. Completed a rough draft for the peer-editing session, provided helpful comments during the peer editing session, and made substantial improvements to the first draft.	5	4	3	2	1	0	10	
TOTAL								100	