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01/08

50 pts Lab #1   Notebook Grading

THE FOLLOWING ITEMS ARE REQUIRED:
❑ Student's work reproducible from notebook.

❑ Title and date for each lab section.

❑ Written in ink.

❑ Student signed every page.

❑ Student dated every page.

15 pts   PRE-LAB:
3 pts   1.   Transfer function Vo/Vs for circuit in **Fig. 1**.
5 pts   2.   Hand-drawn Bode plot.
5 pts   3.   Matlab Bode plot.
2 pts   4.   -3dB point marked on both Hand-drawn and Matlab Bode plots.

35 pts   EXPERIMENT 1:
10 pts (3a) Bode magnitude plot computed using the Brute-Force method.
8 pts   4.   Bode magnitude plot computed using the clever method.
10 pts 5.   Bode phase plot computed using the clever method.
5 pts   6.   Comparison of hand-calculated and Matlab Bode phase and magnitude plots.
2 pts   7.   Explanation of the importance of the -3dB point for the Bode magnitude plot.