Laboratory 3:

Circuit Simulation with LTSpice



BIEN 510 – Bioinstrumentation

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January 10, 2025

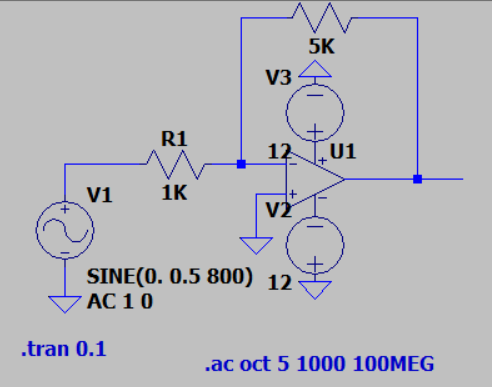


Figure : Circuit of an inverting amplifier.

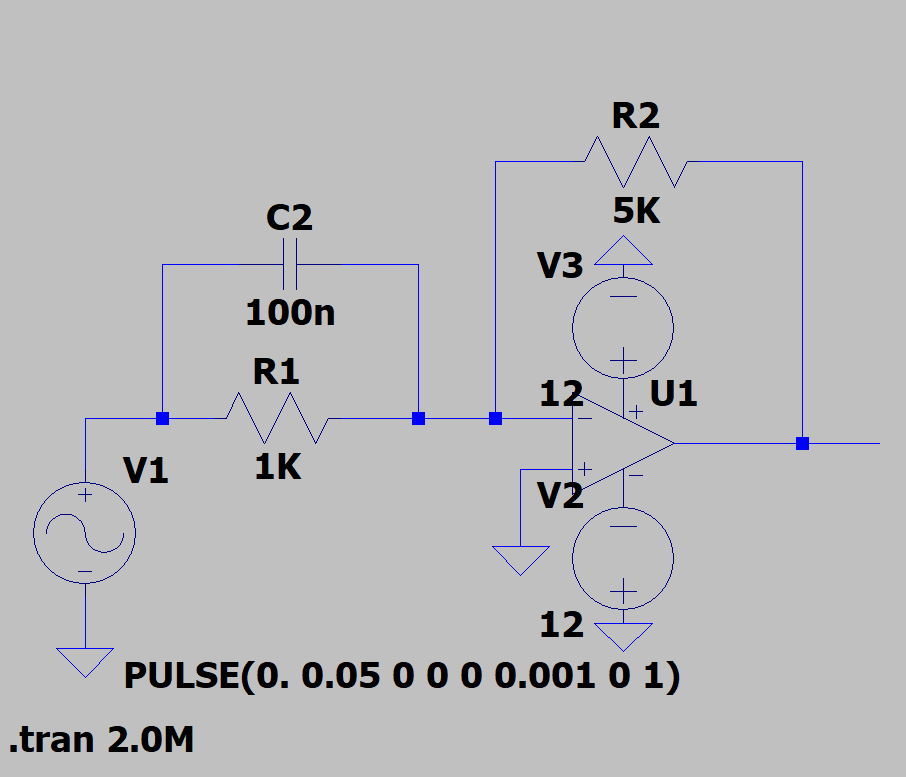
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Figure : Modified amplifier circuit.

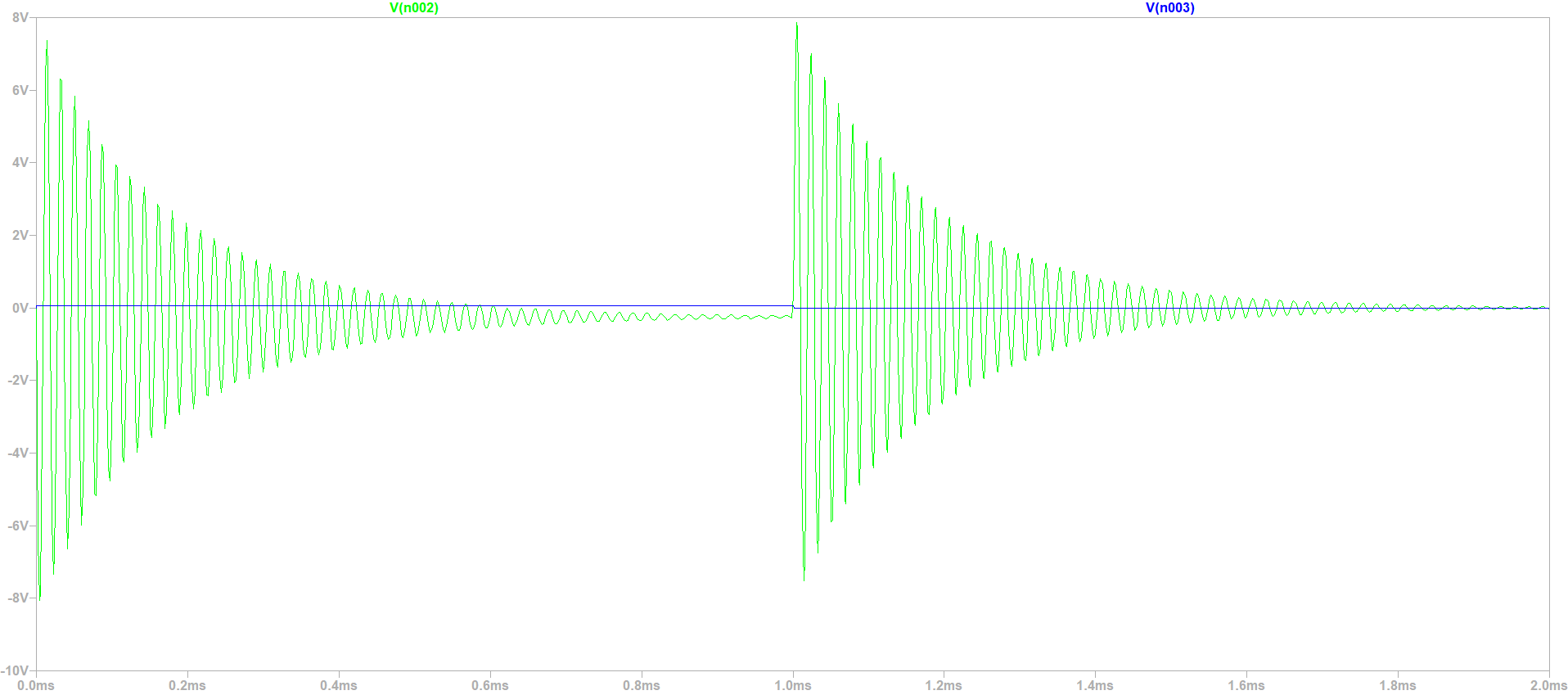


Figure : Output against pulse input.

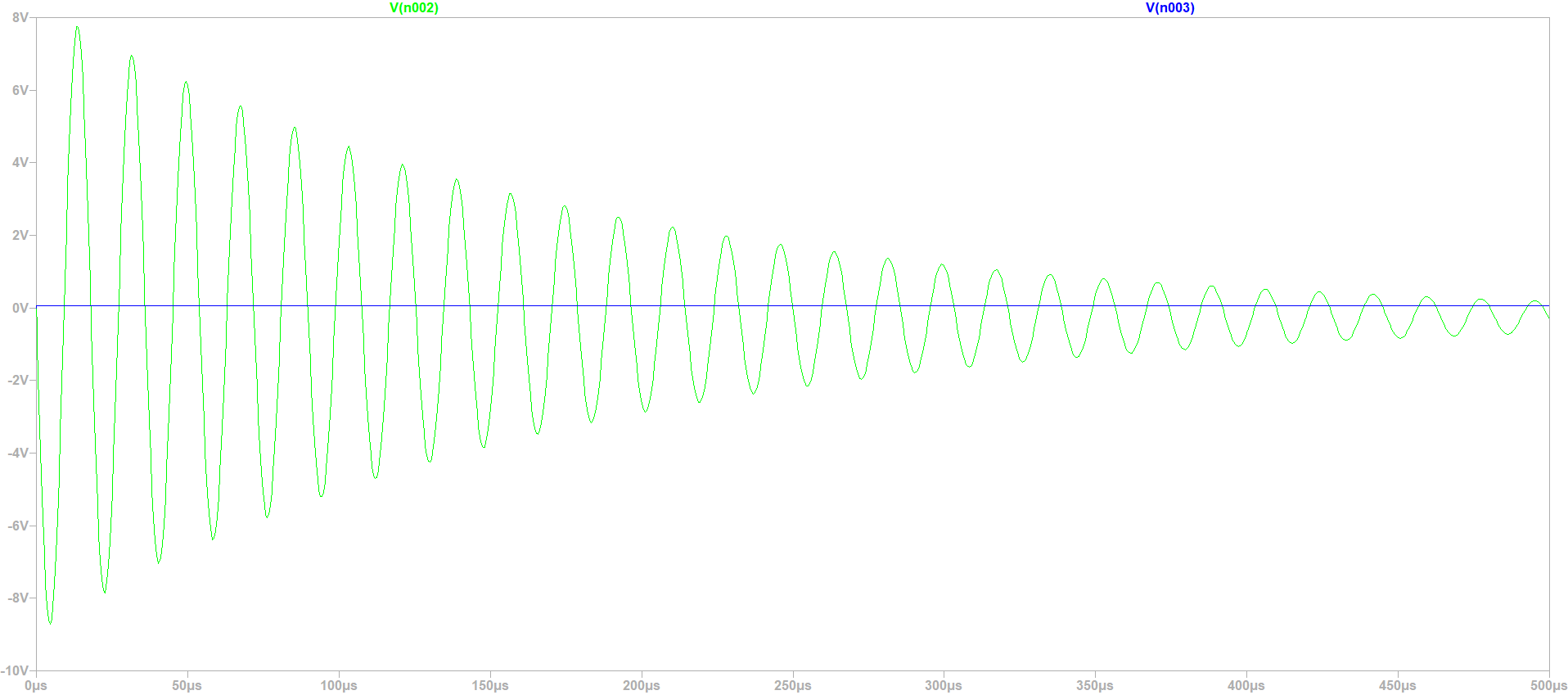
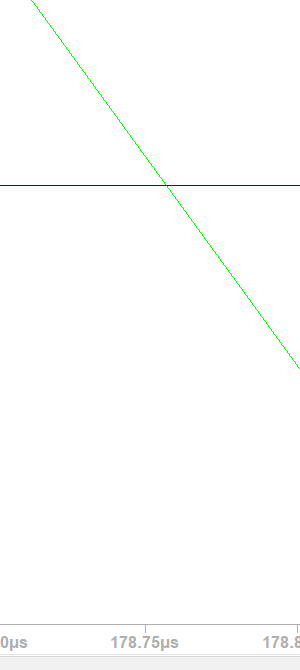
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Figure : Ringing frequency of 178.7 micro seconds.

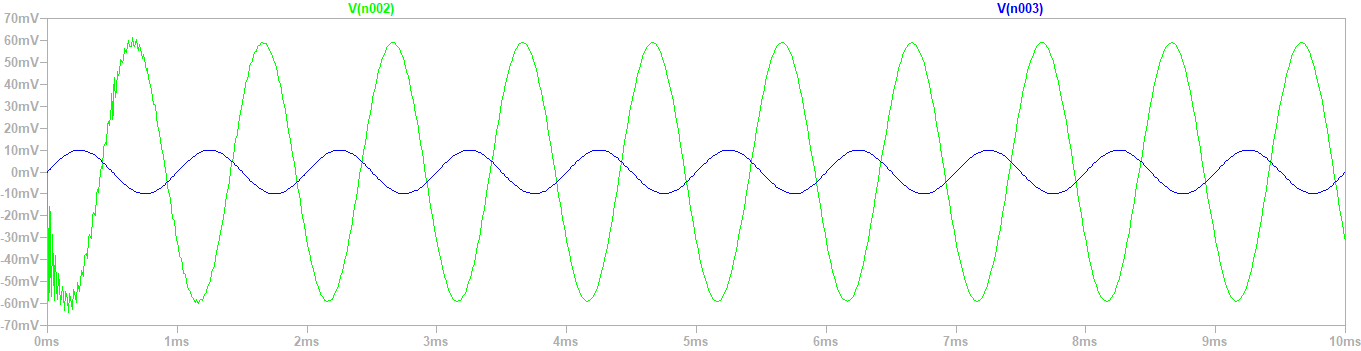


Figure : Input and output cycles at 1k Hz.

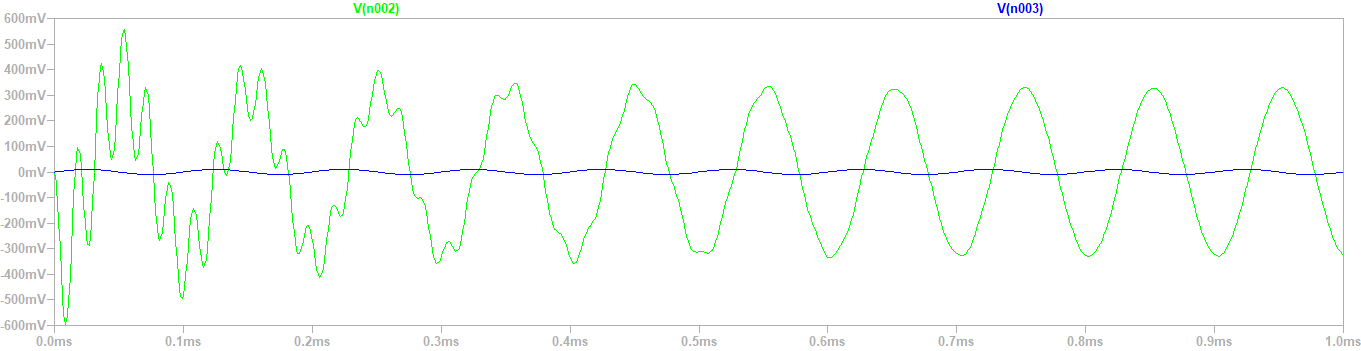


Figure : Input and output cycles at 10k Hz.

Figure : Bode plot magnitude for modified circuit.

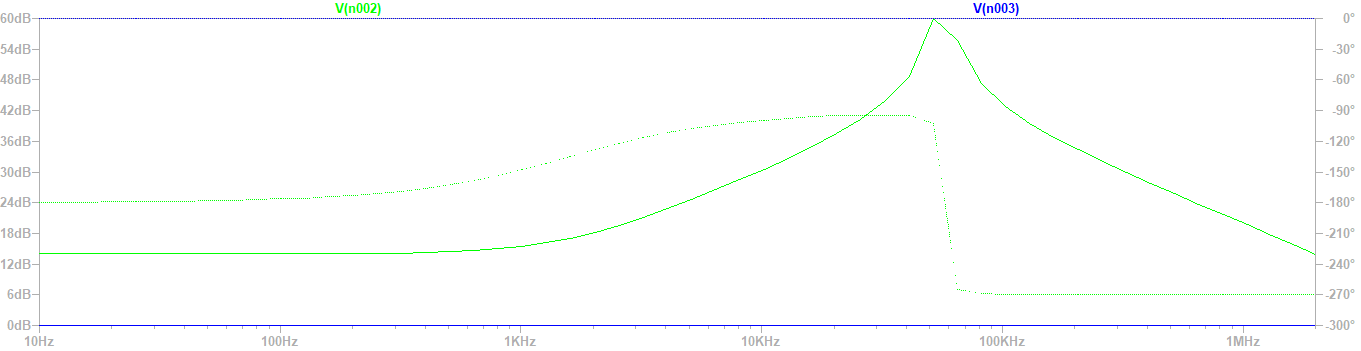


Figure : Bode plot generated in LTspice.