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**Lab 7: Laplace Matlab Answer Sheet**

Section 2. Explain how the V\_out equation was derived.

* This equation was derived by adding the voltages down the side of the circuit. These voltages are calculated by multiplying the current (that we found from our mesh equations) by the resistance

Section 5. Why does the value of Np(1) show up as a zero?

* When typing Np(1) into command window, you get 1.7016e-09, I would suppose it comes up as 0 because the actual value is so small that is is practically 0.

Section 6. Comment on the shape of the Bode plot and explain what you think it means.

* The bode plot has two separate plots one going up and one down. Both simply look like non-linear plots with the top one being of Magnitude, and the bottom of Phase (in degrees) I think the bode diagram has something to do with frequency since the phase angle and magnitude both come up on different graphs. I would suggest it is the frequency response of the given equation.

F.1. What did you enjoy about this lab?

* + I enjoyed how straight forward it was after getting through the mesh equations. The suggestions to check the matlab doc’s on certain functions make using those functions much easier as well.

F.2. What didn’t go well in this lab?

* + It took a moment to figure out the mesh equations, and put them into matrix form, but after figuring that out the rest of the lab went smoothly.

F.3. How would you improve the lab experiment for future classes?

* + I have no way to improve this lab.