1. Why do we clear the command window and workspace at the beginning of a script?

**We clear the workspace so that we do not accidentally use the wrong variables that were defined in a previous script or equation. We clear the command window to unclutter our script so we may begin our new script with a fresh start.**

1. Why would we use variables instead of just using the numbers, which is called hard-coding?

**Variables make the job of the coder or scientist easier when running multiple tests to determine an equation or models behavior. It becomes easier to change one value in a much larger equation, to see how that one variable effects the rest of the equation.**

1. What system would you use to organize your variables and remember what each means?

**If I was using MATLAB in a circuit analysis, I would use variables likely similar to those given in the circuit. For instance, in any simple circuit, there is likely an R1, R2, R3. These would be good examples of variables and can easily be changed to test how the circuit reacts to different resistance levels. If it was a transient circuit, I could also include C1 for a capacitor, or L1, for an inductor. These are very commonly used in circuit analysis itself, and would thus make them great variable names.**

1. What are the benefits to using the array indexing approach?

**It condenses the amount of numbers used when setting a variable. It also makes it easier to count by a certain number by adding what constant you want to count by. This keeps the script clean which becomes a big help when looking at a long and messy script.**

1. In your opinion, would the automatically generated variable *ans* or a user-defined variable be more useful in writing scripts?

**While ans would help figure out the answer at the end, it is harder to do anything with since it is not a user-defined variable. Therefore, it is better to use your own variable, that way you know the name and where to find that answer, in case you need to add that answer to another to get an overall output.**

1. What did you enjoy about this lab?

**It was good at showing examples of where to put things and exactly what your answer should look like, that way I know I am doing things right.**

1. What didn’t go well in this lab?

**When you begin to write in the editor, it complains about not adding a semicolon at the end of declaring your variables. It would be nice if we were told that you must add a variable at the end of statements declaring variables.**

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

**I would only add a small note that if you get a warning from MATLAB, it is likely due that you have not added a semicolon to the statement.**