

**1. Install Matlab on a notebook computer that you can bring to class and lab. Matlab can be downloaded using the following link:**

<https://www.mathworks.com/academia/tah-portal/oklahoma-state-university-stillwater-348318.html>

**2. Download the following three files from the Matlab Examples module on Canvas:**

- a) SimplePlotting.m
- b) tf\_demo.m
- c) Matlab\_summary\_notes.pdf

**Bring those three files with you on your computer when you come to lab. During the lab, you will be modifying these files to solve other problems.**

**3. Open SimplePlotting.m and Matlab\_Summary\_Notes:**

- a) Use Matlab Summary to understand the meaning of lines 1 thru 10 in SimplePlotting.m.
- b) Using Matlab summary, explain the purpose of the "." characters on line 12.

The "." character indicates that the array must be evaluated element by element.

**4. Run – SimplePlotting.m and answer the following questions:**

- a) What is the peak value of y on the second graph: 19.4883
- b) At what time does the peak value of y appear on the second graph: 4.021 (s)

**5. Open tf\_demo.m and Matlab\_Summary\_Notes:**

- a) Use Matlab Summary to attempt to understand the entire program (tf\_demo.m)

**6. Run – tf\_demo.m and answer the following questions:**

- a) What is the peak value of the impulse response (second graph): 1.29
- b) At what time does the peak value of the impulse response occur: 0.276 (s)

*Write your answers on this page, scan it and upload it to the Matlab Prelab 1 assignment dropbox.*