**MATLAB Chapter 8 Assignment**

In this course you will complete multiple MATLAB assignments that are aligned to the curriculum. Other than the introductory assignment, all assignments will be completed entirely on your own. If you should run into problems, you should seek help immediately from your professor, the course coordinator, or the Academic Center. Assignments will be marked down for using codes that are not presented to you in the guide. If you find a command that works and has not been presented to you, you should seek approval from the professor or course coordinator before turning in the assignment. MATLAB is available on all computers in the K-Building and L288 (Academic Center). Upload the published solution to Canvas using the assignment link.

Answer/Interpret the following in complete sentences using either “*disp*” or “*fprintf*” commands. Be sure to label values in your code and write comments to clarify lines or sections as necessary.

1. Graph the following two functions on the same set of axes on the interval . Be sure to include a legend, axis labels, and title.

 

1. Use MATLAB to evaluate the improper integrals  and . Give an exact answer or round to three decimal places. Tip: Be sure to read about coding for improper integrals on p. 20 of the guide.
2. Determine the arc length of the curve  on the interval . Round the answer to three decimal places.