MAT-01 Introduction HW

Note:

Before beginning your homework, refer to the ENGR_1187_Homework_Formatting_and_Tips.pdf document on Carmen.

Your homework must be submitted in the format outlined in the document referenced above to the Carmen dropbox before the next class.

E-mail your instructor with any questions you have.

Homework Problems (MATLAB Book):

- Chapter: 1
- Problems: [4, 9, 12, 37]

Special Instructions:

- Always remember to suppress all output using “; ”.
- Problem 4: Assign results to a variable of your choosing and use the disp command to display the results.
- Problem 9: Assign results to a variable of your choosing and use the disp command to display the results.
- Problem 12: In each case [(a) and (b)] you are calculating a trigonometric identity. This means that the left hand side of the equation should be equal to the right hand side of the equation given some x-value.
  - For part (a) calculate and assign the left hand side of the equation to the variable LHSa and then calculate and assign the right hand side of the equation to the variable RHSa.
  - Then take the absolute value (think built-in function here) of the difference between LHSa and RHSa. Ideally, the result will be 0, but it is not. Can you think of why? MACHINE PRECISION! Computers have precision and round-off errors that occur in calculations. So when comparing calculations in situations such as this, it’s always best to compute the absolute difference and check if the result is below some tolerance.
- Repeat this for part (b).