EAS 596, Fall 2019, Final Exam, Part II Due 11:59 PM Sunday Dec. 15, 2019, submitted to UBLearns Total Possible Points: 50

NAME: ASHISH SANGHVI	
PERSON #: 50318479	
SECTION: PROF. GARY DARGUST SCORE:	/50

By submitting this work I affirm that I have not given or receive any unauthorized help and that all work is my own. I understand the consequence of not following this policy will result in a score of zero for the entire exam.

Problem 1b:

From 
$$21.0000e - 05$$
  $4 = 0.3679$  Erron  $= 1.0000e - 05$ 

Minimum Number of Time Acro for Forward Euler Method = 373 Problem 1d: Number of Time Steps = 57

as Roots Produblint [n-LISINOI-L2SINO2=0] Problem 2a: Initial Punction P  $\chi = (L_1 \cos \theta_1 + L_2 \cos \theta_2)$ h=(L, Smo, + L2 Smoz)

We observed that O, us + had noise and this noise results in fluctuations when we try to plot or vot for various Values of V, a calculated using 0, , while using the data matrix directly for value of 0, we observed higher noise in comparison to the matrix drawed from fitted value. Since the Fitted values are obtained by fitting the curve city for 0, Data Matrix. Which results in slight fluctuation of a values (obtained by results in jugor pactuaron of Indial Assumptions in the fitting the data justime Results). Our Instal Assumptions in the fitting the data justime Results). Our Instal Assumptions in the first the data justime Results). Our Install Assumptions in the first the form 2 That conveyed beginning for 02 might have an effect but retired to the form 2 That ors