Experiment 0 -0.32 Matlab

Matrix Laboratory

* Gleve Moley - FURTRAN 0 52510 y = 4e everything is a matrix Jusuete 2 = [1,2-3-] La Mat lab, orctone Mathematica, Maple, Soge 0, 1, 5, 3 673910 11 points (ndes) 10 internals (22)

0.1 - interval (stepsize) - ? - n Ses 052510 0.3 0.0 0.5 0.6 0.7 0.8 0.9 1.0] step (interrol) nint = 10-0 = 10 = 100 (Note) xung - 1 nnodus = nint+1 = 101

X=[0 0.1 0.2 · · · 10] 4 e -0.3[0 0.1 0.2 - - -]. y = [4e-0.3(0) -0.3(0.1) -0.3(0.2)

Experiment 1 ellipse $\frac{z^2+y^2}{a^2-1}$ = $\frac{a=5}{b=2a=10}$ (i) create your subduectory for scripts & create another duector called expt 1 in (iv) We want to plot the ellipse Kini: parametrize the work 2= a cost); - t=[0: 2+pi: 2+pi] creates pour rector t step size $2\pi i - 0$ 100

101 entries $t = [0 2\pi i 2 + 2\pi i 3 + 2\pi i ... 2\pi i]$ y = b sw(t); (ii) prea of ollege A= Trab (11) Perimeter of ellipse define $k = (a-b)^{L}$ herimeter $S \simeq T(a+b)^2$ $10 + \sqrt{4-3h}$ Create a gript file for each part.

$$a = \begin{bmatrix} 1 & 0 \\ 2 & 1 \end{bmatrix} \quad c = \begin{bmatrix} 3 \\ 2 \end{bmatrix} \quad c \cdot + a = \begin{bmatrix} 3 \\ 2 \end{bmatrix} \cdot + \begin{bmatrix} 2 \\ 2 \end{bmatrix} = \begin{bmatrix} 2 \\ 2 \end{bmatrix} \quad 2 \times 1 \quad 2 \times$$

$E_{X} = 2.9$ $D = 27, +57 = 11$ $32, -2x_{2} = -12$	2 regres determinates
①×2+②×5 いれ」+10スレ= 22 15スー10スレ=-60	
971 = -38 $ 71 = -2$ $ 71 = -2$ $ 71 = -2$ $ 71 = -2$	-3 mos substitute $2(-1) + 52 = 11$ $2(-2) + 52 = 15$ $2(-2) + 52 = 15$
AX = b $b = [11 ; -12]$ $x = inv(A) * b$	z = A\b