Модина контранна робота 3 gecynnines Verclessei seemge - 5 congermon royun MC-33 = 500 = 500 Mambionege Auscinscii MusousiBhere Trig rac berononeres 20506' ezgras gomperengamico housesario aragenima gogo romami NED 8 - 260000 = DE 6 - 1730 284 9 = (2-17 , 205 5 - = A-17 poure total Description who are an arranged service of the

Capiaum 37 1) f(x,y,z) = xx-y2 Y= 2.3± 0.02; y= 1.5± 0,02; Z= 3,5±0,02 Due postissanses beropuemoseno opopungies: D(Ax) = ξ | Dt(x1, x21...) x0 | V(x,1) Ompunyens: D(f*) = | = | D(x*) + 1-24 | D(y*) + 1x* | D(z*) = = 3.5.0,02 + 3.0,02 + 2.3.0,02 = 0,176 Mogi: f(x, y, z+) = 2.3.3.5-1,5= 5,8 8(4") = 0,876 = 0,0303 = 3,03% 2) Doi impassit que que xos xerus menorunos ropenue nemogen penarcaji x2 + 4 sin x = 0 Nanpuruag, 5(-1)=-2,366, 5(-3)=8,436 Omnice, copiese micromotos na yearey npassionez

[-3,-1]

f'(x)= 2x + 4cos x < 0 ma young inpaniercy en promonen 3 pocmae f"(x)= 2-4sin x>0 Many my = min 14'(x) = 14'(-8) 1 = -9.95697 M2 = max 1 f'(x) = 1 f'(-1) = 0,1612 Mogi: T= Tonz = 2/ma+Ma = -0,2 xn2+ Lesinkn Xn+12 xn+0,2(2xn+4cosxn) Oбepeus honomode zuorenus: 4, = -3 20= x0 - x 1x0153 K-cms imepayiu: n7, [ln (1201/E)] +4

9= (Ni-mi)/(Ni+mi)= lmepaesii 0 X0=-3 1) x== -3+0,2(9+4sin(3) =-4,7-1,3 1x2-x01=2,7>8 1x2-xal= 0,43 > E Kuronyene imepayit home ne governous Ix neith GG- - Len timbe - zno I enverage some my augost

3) Alemog Ebighamiux Referible

$$\begin{cases}
x_1 + x_2 + 2x_3 = 2 \\
x_1 + x_2 + 4x_3 = 2
\end{cases}$$

$$A = \begin{pmatrix} 1 & 1 & 2 \\ 2 & 1 & 4 \end{pmatrix}$$

$$A = A^{\dagger} = 0 \text{ underson Becomes overog}$$

$$d_{11} = \frac{1}{3} \text{ (a_{11})} = \frac{1}{3} \text{ (a_{12})} = \frac{1}{3}$$

D= (0 0 0) 5= (0 1 2) $S^{T}D_{y}^{b}$ $S^{T}D_{y}^{b}$ $S^{T}D_{z}^{b}$ S^{T $\begin{pmatrix} 1 & 0 & 0 \\ 1 & 4 & 0 \\ 2 & 2 \end{pmatrix} \begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix} = \begin{pmatrix} 2 \\ 1 \\ 2 \end{pmatrix}$ 92=92=-2 -92+4=1=7 92=41-1=1 43+41-42=1 =7 43=1=2+1=0 $\begin{pmatrix} 1 & 1 & 2 \\ 0 & 1 & 2 \\ 0 & 0 & 2 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{pmatrix} 2 \\ 1 \\ 0 \end{pmatrix}$ X1 + X2 + 2 x3 = 2 => pozb'ezaru (ne bicrouno reay

E = 40 A= (1 1 2) A = AT Знайти престоприе значения з точность 103 1) x°= 11 1 = -1 20 1 1 2 = -1 20 => A20 B= 11A11 & E - A = -1 (2 00) - A Epopu imepayii. 1) x° = (1, 1, 1) T 21 = X1 ... 2) e' = x1 x2= Be wacy) 32 = x12 123-21 5 E - erego guelos Euronigias - 3ynuno 2 min = 11A11 = 2 max UB) (mir aspax. Les Buctarums 2010es)