Sizoge eggelsteg tipust Vorlike - Songori Arlike Korlatos optimen rerases min { { (x) | x \in (x) =0; i=1, p) og gelikersig tipusi dorlitor - he soignon myori Los Lagrange a  $L(\times,X)=J(x)+X\cdot g(x)$  $\begin{cases}
\frac{2d}{dx} = 0
\end{cases}$ 1 i= (,m ntp egyenlet ( 2d -0 13=1P Nem Sigon 4 KKT Ha van begori horlit nægeld.

La Ha teljeski a næssigerd horlåtet akka vægestink And hen telesituel -> Lug ruge fg -> vijradbjul MATLAB Sov. Circolnis Isoletor Cin. Forther aptimiset korlito min. herses Knin = francom (fy Xo, A, B, teg, Teg, LB, VB, @Malon, options) egyptillusers easystokyet also, felo' hothod A.X&B deg.X=Feg LB < X & VB Morlal. In  $\int_{\mathcal{O}} = \mathcal{O}(\lambda)$ Junction (ce, (cg) = Nonlan (x) - de Other worth
unes 4=[]; B=[],ng hell whi

LIS UB contractor la are issaes whitesout Pl.  $f(x) = x_1 \cdot x_2 \cdot x_3$  $f=\omega(x)$   $\times(1)\cdot \times(2)\cdot \times(3)$ X127 6) -x16-7. Xo = nanda (3,1) (Materitisally -30) X2 + 3×3 ≤20  $\begin{cases} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{cases} \leq \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} \leq \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2} \end{pmatrix} = \begin{pmatrix} \frac{1}{2} \\ \frac{1}{2} \\ \frac{1}{2}$ X2-X3+6=X20 X1. X2-Jx3=20 2-x1 + x2 >5 0 - W-x4-5 ky ≤9.  $\begin{pmatrix} -1 & 0 & 0 \\ 0 & 1 & 3 \\ -2 & -1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} \subseteq \begin{pmatrix} -1 \\ 2 \\ -5 \\ 3 \\ -1 \end{pmatrix}$ / ×2 > 2. 1/2. log (x2)>7  $(X_1+3X_2=5.X_3)$  $\frac{1}{Acq} = \frac{3}{x_1} = \frac{3}{x_2} = \frac{3$ NonLion. My Eo tell lyse ce

Markon [ce, ceg] = Markon (x)  $Ce = -X(1) \cdot \log(x(1)) + 7; \quad \text{if for in bour}$   $Ceg_1 = X(2)^2 - X(3) - X(3) + 6; \quad \text{if for it is}$   $Ceg_2 = X(1) \cdot X(1) - 3 \times (3) - 2; \quad \text{if for it is}$   $Ceg_2 = X(1) \cdot X(1) - 3 \times (3) - 2; \quad \text{if for it is}$ 

Teladatel ARRAYOUNI MINDEN VALTOZATOT CONTOUR

CONTOUR

(1) 1(x x) = 2x2+642-2x4-3x+6

(2) 
$$f(x,y) = -xy$$

a.) fruit search

b.)  $y + x \cdot e^{x} = 0 \leftarrow fruit con$ 

(3)  $f(x,y) = i0(x-3,5)^{2} + 20(y-h)^{2}$ 

bother  $(x+y) = 6$ 
 $(x+y) =$ 

## Feladutor negoldosa

(a) 
$$x^{2} + y^{2} \le c$$
 $x^{2} = 0$ 
 $x^{2$