Brolelan -1 B=[2(x,+1) - M3 + M,] = 0 = 100 = 1 2-430 =0 05 2+55-51x-=10 $\frac{5.42 - 3.43 = 0}{5.42 - 3.43 = 0}$ $\frac{3h_2}{02}$ Herre it is globel minimum. Errolelem-2

Toking transform points

[-1]+U,[-3 (1-)(-)] + U2 (6)-(0)

[-1]-(0) [-1+11,-301-85][0](1-)-S-166 $= -1 + 4 + 3 + 3 \times 2 = 0$ $4 = -1 + 4 + 3 + 3 \times 2 = 0$ $4 = -1 + 4 + 3 + 3 \times 2 = 0$

Golden - 3 more f= x,x, +x, x3 x,x,x,x,s st=h= x,+x,+x,-3=0 min 6 = -x, x2-1/2×3-x, x5 h= x, +x2+83320 L=14h= -x12, x2x3-x,x3-1 > Cx+12x3-3 - 1/2 - X3 + 1/20 - 2/1 - X2 + 1/20 - X2 - X2 + 1/20 2,23-1,-12 = x1 = x2 = x3 = \$

Reduced symplests $d = x_1 > x_2 \qquad h = x_1 + x_2 + x_3 - 3$ $b = x_3 = 3 - x_1 - x_2$ $d = 24 - 24 \quad (3h) \quad 3h = 0$ $d = 32 \quad 32 \quad (3s) \quad 3d$

$$2f = \begin{bmatrix} -\chi_2 - \chi_3 \\ -\chi_1 - \chi_3 \end{bmatrix} - [-\chi_2 - \chi_1) G(3) \begin{bmatrix} 1 \\ 1 \end{bmatrix} = 0$$

$$\begin{bmatrix} -\gamma_2 - \gamma_3 \\ -\gamma_1 - \gamma_3 \end{bmatrix} + \begin{bmatrix} \chi_1 + \chi_2 \\ -\chi_1 - \chi_3 \end{bmatrix} + \begin{bmatrix} \chi_1 + \chi_2 \\ -\chi_1 + \chi_2 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_1 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_3 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2 - \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_1 - \chi_2 \\ -\chi_2$$

$$[-7] = x_2 = x_3 = 1$$

on Cholelem-4 mox 2, 372 F6 = 2x, +bx2 min x, x 2 = 1 = - 2x, -bx 2 $\theta_1 = -\chi_1^2 - \chi_2^2 + 5 \ge 0$ On =- 3 12-x+2 =0 2h= 3h = 1-2x2 2x6 (-b)x1x(b=)=0

The aleanse would lion is contraditing as LHS + RHS	at 15
the along would lion is contrastiling as LHS + RHS points (0,0) . Home common scales using XXX contrast	Lion
= (1) (1/40) - x3 1/6	
Broblem-5	3
min 6 = x12+x32	
	2
4 8 25	7
$h_2 = \chi_1 + \chi_2 - \chi_3 = 0$	· C
1d=2,	
8=x2,x3 26=26-26/24/24	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
m = 2	
$\frac{\partial f}{\partial d} = 2x_1 + \frac{\partial f}{\partial x_2} = \frac{\partial f}{\partial x_2} = \frac{\partial f}{\partial x_3} = \frac{\partial f}{$	O
od by dredry dry	802 20
8 (St. 6) 2 (St. 6)	5
8x32x2 8x2	0
[: 2] = 0	
160 23 6 / 19	4639
2h-22 - x(1) = 0	
DS DRIDX3 DX	
3 2h - 3h (-1)=0 Sh = 0	
2x22x2 2x	

end lein is confincted as 1443 + 184 5. 2 22 - (0x1) (1) ED of he is convided $\frac{dS}{dA} = 2x, -\left(0x\right)\left(\frac{1}{2}x_1\right) = 0$ = 2x, -1/2x, 6=0/6 /6 - 16= 16 816 = 3/2x, =0 $\frac{-2}{2} = \frac{2}{3}$ $0 = (3xs) \frac{1}{6} = \frac{2}{6} = \frac{1}{6} = \frac{1}{6}$ $0 = (3xs) \frac{1}{6} = \frac{2}{6} = \frac{1}{6} = \frac{1}{6}$ $0 = (3xs) \frac{1}{6} = \frac{2}{6} = \frac{1}{6} = \frac{1}{6}$ and Searchi-600) = 60k- A21 35k+X ((24) (34) (34) (35) (C2) = b(de, Sk) = 2 + (SL) (36)

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