HMZ - Lerie 37.  $f_{1}(x_{1}, x_{2}) = 20 - 18x_{1} - 2x_{2}^{2}$   $f_{2}(x_{1}, x_{2}) = -4x_{2} \cdot (x_{1} - x_{2}^{2})$   $x^{(e)} = \begin{pmatrix} 7.1 \\ 0.9 \end{pmatrix}$ 0;  $Df(x^{(e)}) = \begin{pmatrix} -18 & -3.6 \\ -3.6 & 5.32 \end{pmatrix}$ ,  $S^{(e)} = \begin{pmatrix} -0.104 \\ 0.126 \end{pmatrix}$ ,  $f(x^{(e)}) = \begin{pmatrix} -1.42 \\ -1.049 \end{pmatrix}$ 11  $f(x^{(e)}) \parallel_{2} = 0.233$ ,  $|| S||_{2} = 0.163$ 12  $Df(x^{(e)}) = \begin{pmatrix} -18 & -4.103 \\ -4.103 & 8.649 \end{pmatrix}$ ,  $S^{(e)} = \begin{pmatrix} 0.004 \\ -0.025 \end{pmatrix}$ ,  $f(x^{(e)}) = \begin{pmatrix} -0.032 \\ 0.231 \end{pmatrix}$ 11  $f(x^{(e)}) \parallel_{2} = 0.008$ ,  $|| S||_{2} = 0.025$