$$\hat{\mu}_{1} = \bar{\chi}_{1} = \begin{pmatrix} \varphi \\ 2 \end{pmatrix} \qquad \hat{\mu}_{2} = \bar{\chi}_{2} = \begin{pmatrix} 3 \\ -1 \end{pmatrix} \\ \hat{\mu}_{1} = \frac{1}{2} (\hat{\mu}_{1} + \hat{\mu}_{2}) = \begin{pmatrix} 3.5 \\ 0.5 \end{pmatrix} \qquad \hat{\Xi}^{-1} = \frac{1}{2.99} \begin{pmatrix} 8.4 & -1.1 \\ -1.1 & 0.5 \end{pmatrix}$$

## 故传饱到到出教为

$$w(x) = a^{7}(x - \mu) = (\mu, -\mu)^{2} = (x - \mu)$$

$$= 1.7057x_{1} + 0.1338x_{2} - 6.0368$$

$$w(x_{0}) = 1.7057x_{2} + 0.1338x_{1} - 6.0368 = -2.491600$$

故剩 Xo t Gz

$$\vec{A} = \frac{1}{h} \sum_{i=1}^{2} n_i \vec{x}_i = \begin{pmatrix} 2.6406 \\ 1.2752 \\ 0.6189 \end{pmatrix}$$

$$B = \frac{1}{2} \ln (x_i - x_i)(x_i - x_i)^{T} = \begin{pmatrix} 367.8307 \\ 367.8307 \\ 177.7367 \\ 177.7367 \end{pmatrix} \text{ fot. 1168}$$

$$R = \frac{1}{2} \ln (x_i - x_i)(x_i - x_i)^{T} = \begin{pmatrix} 367.8307 \\ 177.7367 \\ 76.1685 \\ 39.2294 \end{pmatrix}$$

$$E = b \times \hat{Z} = \begin{cases} 13.805 \\ 1.5096 \\ 2.8452 \end{cases}$$

$$E^{-1}B = \begin{pmatrix} 1.5070 & 0.2148 & 3.3482 \\ 2.8452 & 0.2148 & 4.3482 \\ 22.0306 & 9.8335 & 8.9059 \\ 39.5553 & 24.6678 & 0.9476 \\ 1.3977 & 1.6671 & 0.9476 \end{pmatrix}$$

$$dz = \begin{pmatrix} 0.5002 \\ -0.8252 \end{pmatrix} dz = \begin{pmatrix} 0.1308 \\ -0.1873 \\ 0.9809 \end{pmatrix}$$

$$\Delta z = (0.2817, -0.3988, -0.1269)^{7}$$

$$a_3 = (-0.0753, -0.0819, 0.5617)^T$$

三个 Fisher 利到函数为: 41=0.1626 x, +0.3888x2+0.0189x3 42 =0.2417x, -0.3988x2 -0.1269x3 93=-0.0753X,-0.08 ×9 X2+0.56 ×7 x3 丝用繁第一到创函数y1, Filher到到规则:

对信定的择的X。,若有在し(15156),使 对接品 Xo=(2)1)1) T  $a_2: |a_i^{\tau}(x_0 - \overline{x_i})| = 0.2426$ 

G1: | a, T(x0-x1) | = 0.3795

ap: 10,7 (xo-xi) = 0.6485 0 Qz = | Q1 (x0-xi) | = 0.5836

a6: 10, T(x0-Xi) 1= 05325 as: 1 a, T (x0-xi) 1 = 0.3952

し=20寸 有1a,T(Xo-Xi11=0.24210最大 巨到 Xo ← G2 , 即 可诊翻断该患者为患病类型