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	$(ni-0i)^2$
Q1.	$f(n_1,Q_1,Q_2) = \frac{1}{\sqrt{82}} \times \sqrt{2} \times \frac{e^{-(ni-0i)^2}}{\sqrt{2}}$
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	0.1 1.1 4
	likelihood function
	$L(Q_1, Q_2) = \frac{\pi}{1-2} (\pi_i, Q_1, Q_2) : Q_2 (2\pi) \stackrel{\pi_2}{=} (\pi_i)$
	L(Q1, Q2)= T (Ni, O1, Q2): Q2 (27)
	C=A
	log ((Q1,Q2) = -n log O2 -n log 2x - 5 (x1-01)2
-	$\frac{109 \text{ Ctarrow}}{2} \qquad \qquad 202$
•	·
	d log 2 (0, 02) 2 E (ni-0,) (1) = 0
	d log 2 (0, 02) 2 2 (Ni-0,) (1) = 0
	0 01 202
	$\leq \pi_i - n\theta_i = 0$
	Oi = Û = Eni = T
	N
11/	
	$\frac{\partial \log_{2}(\theta_{1},\theta_{2})}{\partial \theta_{2}} = \frac{-n}{\partial \theta_{1}} + \frac{\sum_{i}(ni - \theta_{i})^{2}}{\partial \theta_{2}^{2}} = 0$
	$\frac{\partial}{\partial \theta_2}$ $\partial \theta_1$ $\partial \theta_2^2$
	$-n\theta_{2} + \xi (2L - \Theta_{1})^{2} = 0$
	1102 7 2 (41 - 61) - 0
	5(4 5)2
	$\theta_2^2 = \sum_{i=1}^{\infty} (\chi_i - \bar{\chi})^2$
/	n
	$\theta_1 = \xi \eta i \qquad \theta_2 - \xi (\eta - \lambda)^2$
	$\theta_1 = \underline{\xi} \underline{n}i$, $\theta_2 = \underline{\xi} (\underline{n} - \lambda)^2$

Page No. 1 120 Q2. P(YIQ) = Bin (y, m, 0) mcy x 04 [1-8) n-9 log likelyhood function - log 0 (410) 11(0) = log may +ylog 0 + (m-4) = log (1-0) Differentiating wat o du(0) = y - (m-y) = 0 (o) = y(1-o) mô - yô = y - yô