From BS 1-9;

likelihood Vatio

alternate?

$$p(z|H_1) = p[z|\hat{\theta}_1(z)], \hat{\theta}_1(z)$$
 is optimal estimate of  $\theta_1$ ,  $\hat{\theta}_1(z)$ 

maximizes  $p(z|\theta_1)$ 

$$\frac{da}{d\theta} = \frac{2}{2} P^{-1} \underline{e} - \theta \cdot \underline{e} P^{-1} \underline{e} = 0, \quad \hat{\theta}_{1} = \frac{2}{2} P^{-1} \underline{e}$$

$$q(z,\hat{\theta}_i) = \left(\underbrace{z^T P^t e^T}_{e^T P^t e}\right)^T - \left(\underbrace{z^T P^t e}_{e^T P^t e}\right)^T - \left(\underbrace{z^T P^t e}_{e^T P^t e}\right)^T = \frac{1}{2} \left(\underbrace{z^T P^t e}_{e^T P^t e}\right)^T$$

$$q(z,\hat{\theta}_i) = \frac{1}{z} \frac{B^2}{z}$$
, accept H, if  $q(z,\hat{\theta}_i) \geq q_0$ 

1812 B.