2-1

$$\begin{array}{lll}
 & \rho(A(B)) = \frac{\rho(B|A)\rho(A)}{\rho(B)} \\
 & \rho(A) = \frac{2b}{b} = 0.1 \\
 & \rho(B) = 0.00 \\
 & \rho(A) = \frac{2b}{b} = 0.000 \\
 & \rho(A) = \frac{2b}{b} = 0.0000 \\
 & \rho(A) = 0$$

$$P(A|B^{C}) = P(A \wedge B^{C}) = \frac{P(A) - P(A \wedge B)}{(-P(B))} = \frac{0.(-0.000)}{(-0.000)}$$

$$f(x; \theta) = \theta \times \frac{\theta - 1}{100}, \quad 0 < \alpha < 1, \quad 0 < \theta < \infty$$

$$MLE & \theta & (\frac{1}{100}) = \frac{1}{100} f(x_{1}; \theta)$$

$$= \frac{1}{100}$$