Set 5.  $F(x) = \frac{2}{x} \times \frac{e^{-\lambda} x}{x!}$   $F(x) = \frac{2}{x} \times \frac{e^{-\lambda} x}{x!} = \frac{2}{x} \times \frac{e^{-\lambda} x}{x!}$ 

 $= \underbrace{2}_{x=1}^{e} \underbrace{\times}_{(X-1)!}^{x}$   $= \underbrace{\times}_{e}^{e} \underbrace{\times}_{(X-1)!}^{x-1}$   $= \underbrace{\times}_{e}^{e} \underbrace{\times}_{x=1}^{x} \underbrace{\times}_{x}^{x}$   $= \underbrace{\times}_{e}^{e} \underbrace{\times}_{e}^{x}$   $= \underbrace{\times}_{e}^{e} \underbrace{\times}_{e}^{x}$   $= \underbrace{\times}_{e}^{e} \underbrace{\times}_{e}^{x}$ 

$$\sum_{x \in X} \rho(x = x \mid x) = \frac{e^{-\lambda} x^{x}}{x!}$$

$$A = \underbrace{(\times | \times) = \rho(\times = \times, 1 \times) \rho(\times = \times, 1 \times)}_{\times, 1} = \underbrace{e^{-\lambda} \times^{\kappa_1}}_{\times, 1} = \underbrace{e^{-\lambda} \times^{\kappa_1}}_{\times, 1} \times \underbrace{e^{-\lambda} \times^{\kappa_1}}_{\times, 1} = \underbrace{e^{-\lambda} \times^{\kappa_1}}_{\times, 1} \times_{1} \times_{1} \times_{2}$$

$$= \underbrace{e^{n\lambda} x^{2}}_{\substack{\uparrow\uparrow x_{i}!}}$$

$$I_{n}L(X|X) = -n\lambda + \underbrace{e}_{iz_{i}}X_{i}[n\lambda - I_{n}(f_{i}^{n}x_{i}^{n})]$$

B. 
$$d \ln L(x|x) = -n_1 \frac{z_x}{x} = 0$$

$$= b_{3}(1-b_{p-1})(k-1)$$

$$= b_{3}(1-b_{p-1$$

$$\rho(z=z)=\begin{pmatrix} z-1 \\ r-1 \end{pmatrix} \rho(1-\rho)$$
,  $z=r,r+1$ ...

Show 
$$x+y \sim neghinom(2,p)$$

$$p(z=z) = {z-1 \choose 1} p(1-p)^{z-2} = (k-1)(1-p)^{k-2} p^{2}$$

$$+or z=2,3,...$$

$$+or k=2,3,...$$

