Problem 1

$$\begin{cases} x < -1 \\ x < -1 \end{cases} = \frac{1}{4} x < \frac{1}{5} = \frac{1}{4}$$

$$\mathbb{E}[X] = A \begin{cases} x \cdot x^{2-1} \\ \end{pmatrix} \times$$

$$= \chi \int_{0}^{1} \chi^{\alpha} dx = \frac{\alpha}{\alpha + 1}$$

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$$= \chi \int_{0}^{1} \chi^{\alpha} dx = \frac{\alpha}{\alpha + 2}$$

$$= \frac{(\alpha+1)^{2}-\alpha(\alpha+2)}{(\alpha+2)(\alpha+1)^{2}}$$

$$= \frac{3}{4} + 2\alpha^{2} + \alpha - \alpha^{3} - 2\alpha^{3}$$

$$= \frac{(\alpha+2)(\alpha+1)^{2}}{(\alpha+2)(\alpha+1)^{2}}$$

$$= \frac{d}{(d+2)(d+1)^2}$$

C L (a) K<sub>1</sub>, ..., X<sub>n</sub>)

= 
$$\chi^n \hat{\gamma}$$

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$$C(x|x,...,x,)$$

$$= 10,(x) + (x-1) \sum_{i=1}^{n} 10,(xi)$$

$$\frac{\partial l}{\partial x} = \frac{r}{x} + \frac{\hat{z}}{z} = \frac{1}{z}$$

$$(x+1) \overline{x} = x'$$

$$(x+1) \overline{x} = -\overline{x}$$

$$x - 1) = -\overline{x}$$

$$x - x = \overline{x}$$

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## Problem 3

$$+ P(\chi=i|\lambda_i)(1-P(\chi,j))$$

$$=-\lambda_i$$

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$$= \frac{1}{x_{i}!} \left( e^{-x_{i}} \right)_{x_{i}}^{x_{i}} \left( e^{-x_{i}} \right)$$

(,d,e - 1) see