3.12
$$\mathbb{E}[Y_k] = 0$$

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and $Var(X_k)$

$$45=1$$
 we were $5=2$.

then $\int_{X_1,...,X_L} i = \frac{1}{L_1} \frac{1}{(2\pi)(U_1)} e^{-(x\varrho)^2/2U_1^2}$ with $U_1^2 = \int_{U_1}^{U_2} i = 1$

$$\nabla i^2 = \begin{cases} \nabla h^2 & i = 1 \\ \nabla \ell^2 & i = 2 \end{cases}$$

$$f_{x_{11},...,x_{2L}|i} = e_{i} \sqrt{2\pi}(\vec{q}_{i})$$

$$f_{x_{2L},...,x_{2L}|i} = \frac{2L}{1} \frac{1}{4\pi}(\vec{q}_{i}) = (xe)^{2}/2\vec{q}_{i}^{2}$$
with $\vec{q}_{i}^{2} = \int \vec{q}_{i}^{2} i = 1$

$$e_{i} = \mu_{i} \sqrt{2\pi}(\vec{q}_{i})$$

with
$$\vec{\sigma}_{i}^{2} = \begin{cases} \vec{\sigma}_{i}^{2} & i=1 \\ \vec{\sigma}_{k}^{2} & i=2 \end{cases}$$

by taking logarithum we obtain the same solution:

$$i \in \{1,2\}$$
 $l = 1$ $2 \cdot 1$

note that for i=1 and i=2 log $\left(\frac{1}{\sqrt{\sigma_i}}\right)$ in the rame.

note that for
$$i=1$$
 and $i=2$ $\frac{2L}{2D_i}$

win $\frac{2L}{2D_i^2} + \frac{2L}{2D_i^2}$
 $i \in [1,2]$ $l=1$ $l=1$

$$\frac{L}{\sum_{i=1}^{2} \frac{xe^{2}}{2\pi^{2}}} + \frac{2L}{\sum_{i=1}^{2} \frac{xe^{2}}{2\pi^{2}}} + \frac{2L}{\sum_{i=1}^{2}$$

$$\frac{\sum_{i=1}^{n} \frac{x_{i}^{2}}{\lambda G_{h}^{2}}}{\frac{2^{i}}{2^{i}}} + \frac{\sum_{i=1}^{n} \frac{1}{\lambda G_{h}^{2}}}{\frac{2^{i}}{2^{i}}} + \frac{\sum_{i=1}^{n} \frac{1}{\lambda G_{h}^{2}}}{\frac{2^{i}}{2^{i}}} + \frac{\sum_{i=1}^{n} \frac{x_{i}^{2}}{\lambda G_{h}^{2}}}{\frac{x_{i}^{2}}{2^{i}}} + \frac{\sum_{i=1}^{n} \frac{x_{i}^{2}}{\lambda G_{h}^{2}}}{\frac{x_{i}^{2}}{2^{i}}} + \frac{\sum_{i=1}^{n} \frac{x_{i}^{2}}{\lambda G_{h}^{2}}}{\frac{x_{i}^{2}}{\lambda G_{h}^{2}}} + \frac$$

 $E[Y|S=1] = \left(E\left[\frac{2L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{2L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$ $E[Y|S=2] = \left(E\left[\frac{L}{2} \times e^2 \cdot \frac{L}{2} \times e^2 \mid S=1\right]\right)^2$

and there fore

E[YIS=()= E2[YIS=2].

anidentical organient under for # [TIST].