$$\begin{aligned}
(A + UCV)^{-1} &= A^{-1} - A^{-1}U (C^{-1} + VA^{-1}U)^{-1}VA^{-1} \\
&= (c_{0}^{-2}T_{0} + c_{0}^{-2}\Phi^{-1}) & A = c_{0}^{-2}T_{0} \\
&= (c_{0}^{-2}T_{0} + c_{0}^{-2}\Phi^{-1}) & A = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} - c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} - c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} - c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} - c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \Phi^{-1}(c_{0}^{-2}T_{0} + \Phi c_{0}^{-2}T_{0}\Phi^{-1}) & C = c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} + c_{0}^{-2}T_{0} \\
&= c_{0}^{-2}T_{0} + c_{0}$$

$$= (c_0^2 T_0 + c_0^2 T_0)$$

$$C = c_0^2 T_0$$

hu x (hux)

h(x,x)

+ 67n)

h(x, x)

$$(K_{x,n} + 6^{n}E) = LL^{T}$$

$$(K_{x,n} + 6^{n}E)'y = (LE^{T})^{T}y$$

$$= (LT)^{T}L^{T}y$$

$$= (LT)^{T}L^{T}y$$

$$= K_{x,n} = K_{x,n} (LL^{T})^{T}K_{x,n}$$

$$= K_{x,n} (LT)^{T}L^{T}K_{x,n}$$

$$= L^{T}L^{T}K_{x,n}$$

$$\vec{f} = \{f_1, \dots, f_n\} \quad f_n = f(x_n)$$

$$p(\vec{f}) = N(\vec{f}) \quad 0, K_{x_n}$$

$$p(\vec{f}) = T_1 N(y_n; f_n; e^2)$$

$$= N(y; \vec{J}, \vec{o})$$

$$= Sp(y; \vec{J}|X, \vec{o}) dy$$

= (py) f) (pf / x, b) dg

= N(y, 0, Knn + 62m)

 $\begin{cases}
(2) \approx f(20) + df_{2} \\
df_{2} = 20
\end{cases}$   $+ \frac{1}{2} \frac{df(20)}{df(20)} + \frac{1}{2} \frac{df(20)}{df(20)}$   $+ \frac{1}{2} \frac{df(20)}{df(20)} + \frac{1}{2} \frac{1}{2$ 

20 is the mode than dfb =

$$lnf(z) = lg f(20) - \frac{1}{2} A (z - 20)^2$$

$$f(z) = f(20) exp(-\frac{1}{2} A (z - 20)^2)$$

$$f(z) = N(z; zo, A')$$

$$\frac{\partial}{\partial x} = \frac{1}{2} \left( \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \frac{1}{2} \right) \right)$$

$$= \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \right)$$

$$= \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \right)$$

$$= \frac{1}{2} \left( \frac{1}{2} \frac{1}{2} \frac{1}{2} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \right)$$

$$=\frac{\sqrt{4}}{2n}\exp\left(-\frac{1}{2}A(4.45)^3\right)$$

$$\frac{f(z)}{z}$$

$$\mathcal{F} = \mathcal{F}$$

$$6 = f(x)$$

$$f(x)$$

$$f(x$$

$$\int_{a}^{b} \int_{a}^{b} \int_{a$$

$$\int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \int_{$$

