sed el modero de vegresión In = p(Xn) WT + Tn, con [the R. Xn ER]] , we Ra, 1: RP - Ra, Q = P y no ~ N (no 10, 00).

Presente el Problema de Ostimización Canterennal y la Solveron del mismo Para los moderos

ln = \phi(xn) WT + nn

 $\eta_n \sim N\left(\eta_n | 0, \sigma^2\right)$

Por hipotesis E[nn] = 0. y Var (nn) = 82 entorces

to ~ NI (E[Ra] ; Var (2n)).

Elta] = Elp(xn) w' + 2n] = E[o (xn) w] + E[nn] - per hip = \$ (Xe) WT

Var (tr) = Var () (Xn) WT + Rn) = Ver (d (xn) w) + Ver (nn) : °2.

Iverso se concrege que to MH (\$ (Xn) WT ; 02)

$$f(t_{0}) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(t_{0} - \omega)^{2}}{2\sigma^{2}}}$$

$$f(t_{0}) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(t_{0} - \phi(x_{0}) \omega^{2})^{2}}{2\sigma^{2}}} \cdots \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(t_{0} - \phi(x_{0}) \omega^{2})^{2}}{2\sigma^{2}}} \cdots \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(t_{0} - \phi(x_{0}) \omega^{2})^{2}}{2\sigma^{2}}}$$

$$f(\phi(x_{0}), w^{2}/X) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{X^{2}}{2\sigma^{2}}} e^{-\frac{X^{2}}{2\sigma^{2}}} \cdots \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(t_{0} - \phi(x_{0}) \omega^{2})^{2}}{2\sigma^{2}}}$$

$$f(\phi(x_{0}), w^{2}/X) = 0 \cdot e^{-\frac{X^{2}}{2\sigma^{2}}} e^{-\frac{X^{2}}{2\sigma^{2}}} e^{-\frac{(t_{0} - \phi(x_{0}) \omega^{2})^{2}}{2\sigma^{2}}}$$

$$f(\phi(x_{0}), w^{2}/X) = 0 \cdot e^{-\frac{X^{2}}{2\sigma^{2}}} e^{-\frac{(t_{0} - \phi(x_{0}) \omega^{2})^{2}}{2\sigma^{2}}}$$

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