$$\frac{3\alpha f \alpha n c u e^{3}}{\left[\mu = k^{7}(y)(k + \sigma^{2}J_{n})^{-1}t = k^{7}(y)(1k(x,x)1 + \sigma^{2}J_{n})^{-1}t = k^{7}(y)(\sigma^{-2}J_{n} - \sigma^{2}J_{n}1(k(x,x) + 1^{7}\sigma^{-2}J_{n}\cdot 1)^{-1}1^{7}\sigma^{-2})t = k^{7}(y)(\sigma^{-2}J_{n} - \sigma^{2}J_{n}1(k(x,x) + n\sigma^{-2}))t = k^{7}(y)(\sigma^{-2}J_{n} - \sigma^{2}J_{n}1(k(x,x) + n\sigma^{-2}))t = k^{7}(x,y)\int_{i=1}^{\infty} \frac{1}{i} \left(\frac{1}{\sigma^{2}}J_{n} - \frac{1}{\sigma^{4}(k^{-1}(x,x) + n\sigma^{-2})}\right)11^{7}\right)t = \frac{k^{7}(x,y)\int_{i=1}^{\infty} \frac{1}{i}}{nk(x,x) + \sigma^{-2}}$$

$$Var = k(y,y) - k(x,y) 1^{7} (k + \sigma^{2}I_{n})^{-1} 1 k(x,y) =$$

$$= k(y,y) - k^{2}(x,y) 1^{7} (k + \sigma^{2}I_{n})^{-1} 1 = k(y,y) - \frac{n k^{2}(x,y)}{\sigma^{2} + n k(x,y)}$$

$$= k(x,x) \frac{1}{2} t_{i}$$

$$= \frac{k(x,x) \frac{1}{2} t_{i}}{n k(x,x)^{4} \sigma^{2}}$$

$$Var = \frac{k(x, x) + \sigma^2}{nk(x, x) + \sigma^2}$$

$$Var = k(x, x) - \frac{nk^2(x, x)}{\sigma^2 + nk(x, x)}$$

OYERRO HO S(x) HE CICLELY.

$$\frac{3\alpha \beta \alpha n \cos 4}{(x_{1}t_{2}) \cdot x_{1}t_{2}} = R \int_{t=1}^{t} \frac{1}{x_{1}} \frac{1}{x_{2}} \frac{1}{x_{1}} \frac{1}{x_{2}} \frac{1}{x_{2}} \frac{1}{x_{2}} \frac{1}{x_{1}} \frac{1}{x_{2}} \frac{1}{$$

Our bein: 
$$\mu_p = e^{-\frac{\lambda_p - \lambda_h}{r}} t_h$$

$$\nabla_{\mu}^2 = \lambda (1 - e^{-\frac{2(\lambda_p - \lambda_h)}{r}})$$

Jaganue 5 Note a new palenento nogunule parameter opens.  $\frac{\int^{2}(V|X \cup \mathcal{R}) = k(V, V) - (k^{T}(V) k(V, \mathcal{R})) \left(\frac{k}{k^{T}(\mathcal{R})} \frac{k(\mathcal{R})}{k(\mathcal{R}, \mathcal{R})}\right)^{-1} \left(\frac{k(V)}{k(V, \mathcal{R})}\right)}{k^{T}(\mathcal{R}) k(\mathcal{R}, \mathcal{R})} = \frac{1}{k(V, \mathcal{R})}$  $lge k(V) = \begin{pmatrix} k(V, x_i) \\ k(V, x_i) \end{pmatrix}$  $k = \begin{pmatrix} k(x_1, x_1, \dots, k(x_n, x_n)) \\ k(x_n, x_1) & \dots & k(x_n, x_n) \end{pmatrix}$  $1 = k(v,v) - (k^{-1}(v)) k(v,x) \begin{pmatrix} k^{-1} + k^{-1}k(x) + k^{-1}k(x) k^{-1} - k^{-1}k(x) + k(x) \end{pmatrix} \begin{pmatrix} k(v) \\ -1 + k^{-1}k(x) k^{-1} \end{pmatrix} \begin{pmatrix} k(v) \\ k(v,x) \end{pmatrix} = 0$ 190 t= (k(x,x)-k /2)k-1k(x))-1= f-2(x 1 x) = k(v,v) - k"(v)k-'k(v) - k"(v)k-'k(x)+2"(x)k-'k(x)+ + k(v,x)+ k "(x) k-1 k(v) + k"(v) x-1 k(x)+ k(v,x) - k(v,x)+ k(v,x) 62(V(X)-6-2(V(XUR)= k(V,V)-k7(V)k-1k(V)-k(V,V)+  $+k^{7}(v)k^{-1}k(v) + 4\left(k^{2}(v,x) - 2k(v,x)k^{7}(v)k^{-1}k(x) + (k^{7}(v)k^{-1}k(x))^{6}\right) = 4\left(k(v,x) - k^{7}(v)k^{-1}k(x)^{2} = \frac{k^{2}(v,x)}{\sigma^{2}(x+x)}\right)$ 

4. ur.g.

y"= 247 + Uy (Ux (Ux (Ux) - (Xx)), r=d