Thuber !!

(6P.)

(1) 
$$N(?, !)$$

(2)  $6P$ 

(3) agpa?

(4) daixe. ontury  $C CP$ .

$$x = \begin{pmatrix} x_0 \\ x_0 \end{pmatrix} \sim N \begin{pmatrix} y_0 \\ y_0 \end{pmatrix} : Z = \begin{pmatrix} z_0 & z_0 \\ z_0 & z_0 \end{pmatrix}$$

$$x = \begin{pmatrix} x_0 \\ x_0 \end{pmatrix} = \begin{pmatrix} y_0 \\ y_0 \end{pmatrix} : Z = \begin{pmatrix} z_0 & z_0 \\ z_0 & z_0 \end{pmatrix}$$

$$x = \begin{pmatrix} x_0 \\ x_0 \end{pmatrix} = \begin{pmatrix} y_0 \\ y_0 \end{pmatrix} : Z = \begin{pmatrix} z_0 & z_0 \\ z_0 & z_0 \end{pmatrix}$$

$$x = \begin{pmatrix} x_0 \\ x_0 \end{pmatrix} = \begin{pmatrix} y_0 \\ y_0 \end{pmatrix} : Z = \begin{pmatrix} y_0 \\ y_$$

- (goynpoujare go cr-20 Ruga).

Magea 2  $(x_{\alpha}|x_{\beta}) \sim \mathcal{N}(?;?)$  $f(x_0, x_0) = c \cdot exp \left( x_0^T Gx_0 + L x_0 \right)$  no Gul - u kau no g - u kauor  $x_0$  $\begin{array}{c}
\chi = \left(\chi_{\mathbf{k}}\right) \\
\chi = \left$  $\int (x_0, x_0) = cont \cdot exp \left[ -\frac{1}{2} \left( \frac{x_0 - u_0}{x_0 - v_0} \right) \left( \frac{x_0 - u_0}{x_0 - v_0} \right) \right]$  $= \operatorname{const} \exp \left(-\frac{1}{2} \left( \operatorname{Za-laj}^{-1} \cdot \operatorname{Eva}^{-1} \cdot \operatorname{Eva}^{-1} \right) \right) \right) \right) \right)$ · exp(-\frac{1}{2}(\pi\_e-\pi\_e)'. \\ \( \tae\_e \)

1.3.

(Jup.)

$$\chi_{\mathbf{a}} = c + D \cdot \chi_{\mathbf{g}} + \tau$$
 $\chi_{\mathbf{a}} = c + D \cdot \chi_{\mathbf{g}} + \tau$ 

(?)

$$\chi_{\mathbf{a}} = c + D \cdot \chi_{\mathbf{g}} + \tau$$
(w)

$$\chi_{\mathbf{a}} = c + D \cdot \chi_{\mathbf{g}} + \tau$$
(s)

$$\chi_{\mathbf{a}} = c + D \cdot \chi_{\mathbf{g}} + \tau$$

E(LHS)= E(RKS)  $\left( \operatorname{Cov}(x_0, x_0) = 0 + 0 \cdot \operatorname{Cov}(x_0, x_0) + 0 \right)$ (LHS, 76)= = (a(RhS, X6) (ov (7, 76)

$$\int \mathcal{U}_{\mathbf{q}} = C + D \cdot \mathcal{U}_{\mathbf{g}}$$

$$\sum_{\mathbf{q}} = 0 \cdot \sum_{\mathbf{g}} \int D = \sum_{\mathbf{q}} \sum_{\mathbf{g}} \sum_{\mathbf{g}} \int D = \sum_{\mathbf{g}} \sum_{\mathbf{g}}$$

 $\alpha = c + D \cdot \alpha_6 + \epsilon$ 

$$E(x_{\alpha}|x_{\beta}) = E(c+D)x_{\beta} + E(x_{\beta}) =$$

$$= c+D\cdot x_{\beta} + E(x_{\beta}) =$$

$$= l_{\alpha} + (z_{\alpha} \cdot z_{\beta}) \cdot (x_{\beta} - l_{\beta})$$

Vor (xe xb) = Vor (c+Dxb+c|xe)=

$$= |\nabla_{\sigma}(\tau(X_{k}))| = |\nabla_{\sigma}(\tau)|^{2} = |\xi_{\sigma}(\tau)|^{2} =$$

$$Von(x_{\bullet}) = Voe(c + D.x_{\bullet} re) = D.Von(x_{\bullet}).D.Von(r)$$

(10/58)~

N/4 + Eob. Eo (26-116), Eac. - Eob. Ebb. Eba

(uger 3) no worper has o de luf

E-nob. 11.40

2 '= V-11.40

Tothocole  $lu = luc - \frac{1}{2}(u-u) \cdot \underbrace{5} \cdot (u-u) =$  $= ln(-\frac{1}{2}(u-u)^{T} \cdot \sqrt{(u-u)}$  $dh = -(u-u)^{7} \cdot V \cdot du = -du^{7} \cdot V \cdot (u-u)$  $du \neq 0 \qquad (=) \qquad u = u$  $f(x_0|x_0) = \frac{1}{2} \lim_{x \to \infty} \frac{1}{2} \lim_{x \to$ lu f (xa xb) = c<sub>2</sub> - \frac{1}{2} \big( xa - \la \) - \frac{1}{2} \big( xa - \la \) - \frac{1}{2} \big( xa - \la \) = \frac{1}{2} \big( xb - \la \)  $= c, -\frac{1}{2} \left( \chi_{\alpha} - \mu_{\alpha} \right)^{T} \cdot \left( \chi_{\alpha} - \mu_{\alpha} \right)$ - (xa-la). Val. (xe-le) dln f(xa/16) = - axi. Vou (xa-la) + Vol (7,-le)

$$V_{ou}(x_a - u_a) + V_{ob}(x_b - u_e) = 0$$

$$v_{ou}(x_a - u_a) + V_{ob}(x_b - u_e) = 0$$

$$v_{ou}(x_a - u_a) + V_{ob}(x_b - u_e)$$

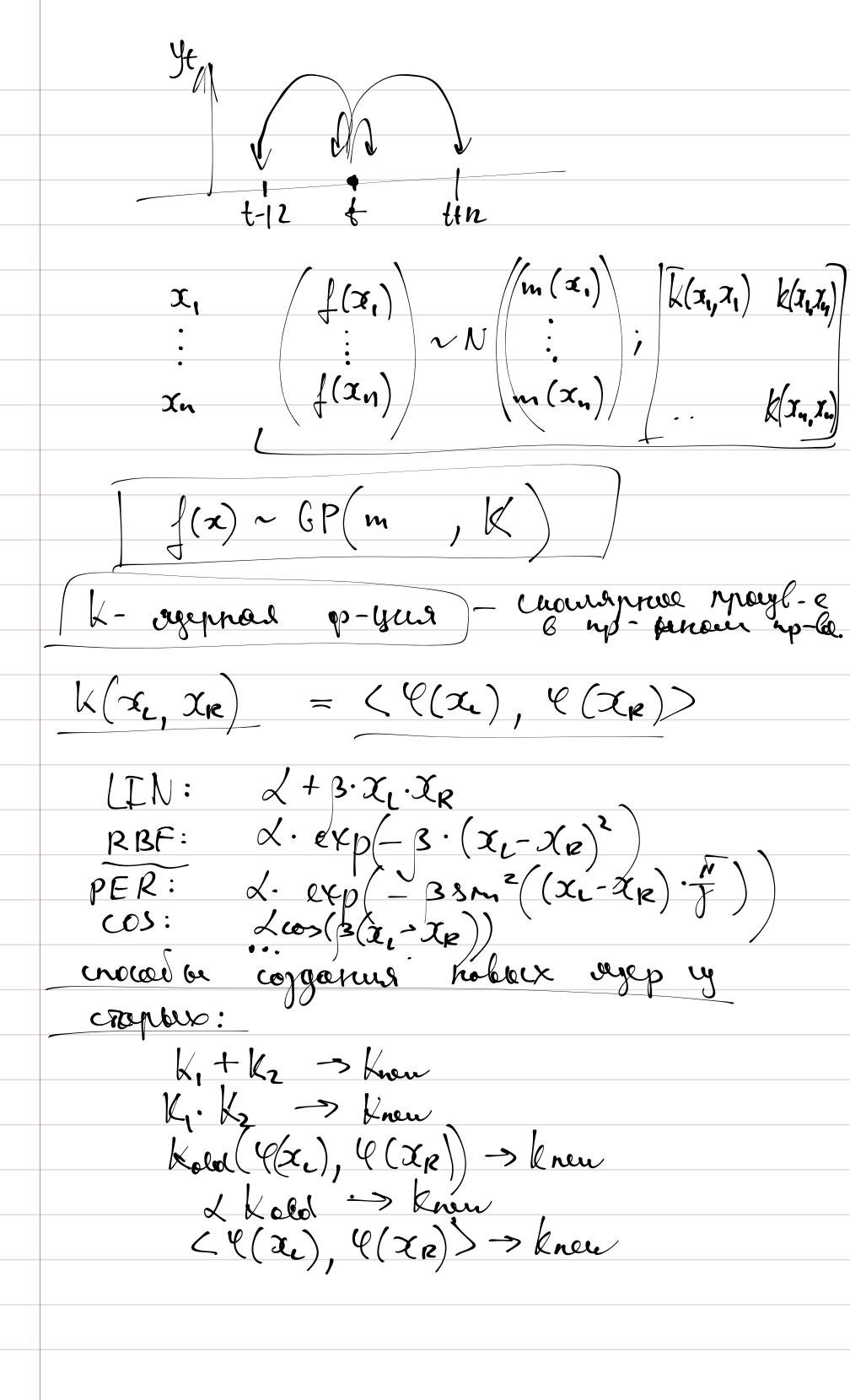
$$v_{ou}(x_a - u_a) + V_{ob}(x_b - u_e) = 0$$

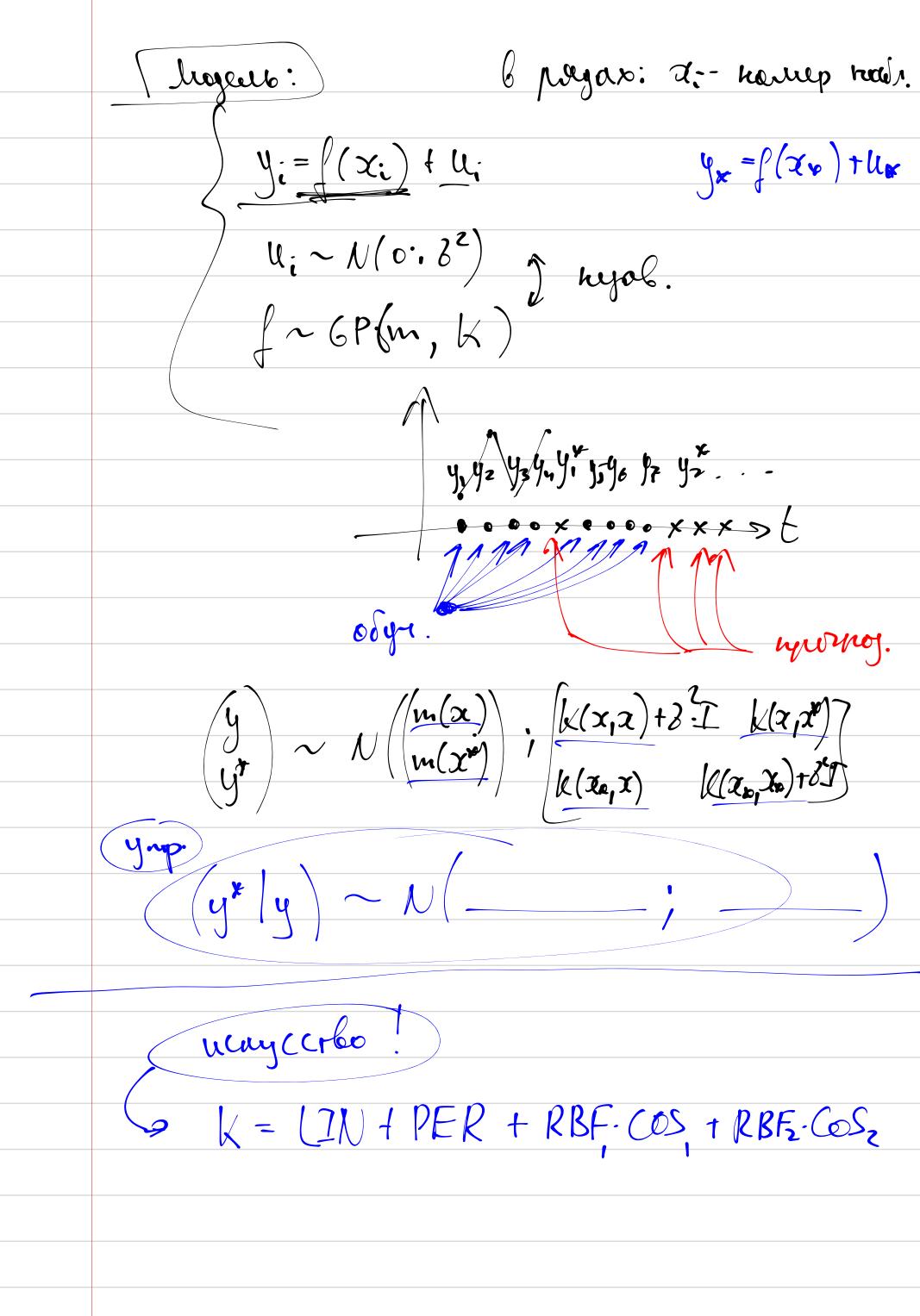
$$v_{ou}(x_a - u_a) + V_{ob}(x_b - u_e) = 0$$

$$v_{ou}(x_a - u_a) + V_{ob}(x_b - u_e) = 0$$

$$v_{ou}(x_a - u_a) + V_{ob}(x_b - u_e) = 0$$

$$V_{eq}(x_a \mid x_e) = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{- dx_a^7 \cdot (v_{eq} \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_a \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a^7 \cdot (v_{eq} \mid x_e)} = \frac{1^2 \ln f(x_e \mid x_e)}{- dx_a$$





bowerd as our-year c GP. Morb relow. y:= f(x;) + u; {~6P(m, k) μ;~ν(0;3²) μγαβ m=0 L = RBF  $LCB = w(x^4) - k \cdot 2(x^4)$  $Pof I(x^*) = P(x_*) < y_{esc} =$  $= P\left(\frac{f(x_{p}) - \mu(x_{p})}{2(x_{0})} < \frac{y_{lest} - \mu(x_{p})}{2(x_{0})}\right) =$  $= \frac{y_{0xt} - y(x_{x})}{2(x_{o})} \rightarrow ($  $u(\alpha_*) = E(f(x_*) | y)$  $2(x_0) = Vor(f(x_0)|y)$  $= \pm \left( \min \left( f(x^*) - g_{xx}, 0 \right) \right)$  $=-2(x^*)\cdot\left(\frac{y_g-u}{2}+\frac{y_e-u}{2}+\frac{y_e-u}{2}\right)^2$