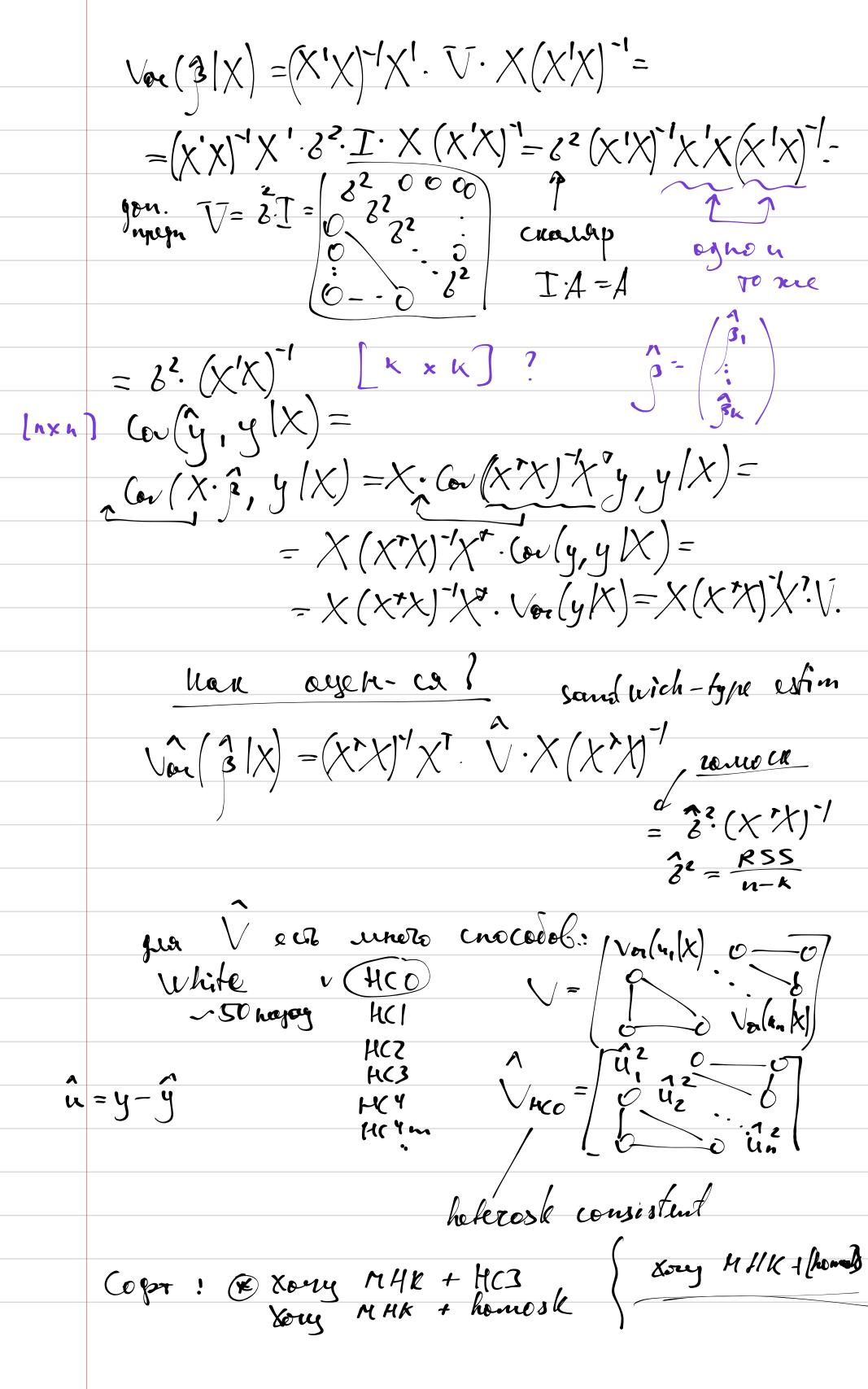
Mespura. UN 4
Cupunho / Bergno ?!
Luite !
3 = (XTX) - X y - unneither  CI gla Bz: [ŝl: ŝ.]  -> Voz(ŝ) - Teope Tur. V  -> Voz(ŝ) - cyenna V
-> Ver (3) - cyrna -> arym CT [\$2 - 156.50(\$2); \$2 + 1.96 sel\$2)  -> gur (T [\$2 - (a. 8(\$2); \$2 + (cr 8(\$2))]
Megn. Bæ ugranho!  habt - cup. bewopna
6 ra cono cou: 47 u y 8 regal
2 usuka
(2) usuka $y = X \beta + \mu$ $y = \beta + \beta \cdot X_i + \beta \cdot Z_i + \mu$ (3) perpecus $\hat{y} = X_i \cdot \hat{\beta}$

F(u|X) = V F(u|X) = 0  $\beta - \text{coher}$   $[+ \text{tomockeg}: V = 3^{2}.T]$ Von ( u | X) = V Cryr. benropu: (4), (3),  $\hat{y}$ ,  $\hat{u}$ Yup.  $E(\cdot|X)$ ,  $Vo_2(\cdot|X)$ ,  $(o_2(\cdot,\cdot|X))$ Surface SuVon (y|X) = Voe(X3 + u|X) = Vor(u|X) = V = b.Igreen.

[nxn] Ver (3 X) = Vor (XTX) xy (X) = in (yn/x) = (xxx)-1x\* Var (y/x). (xxx)-1x\* (A)  $\sqrt{2}(2/X) = (X^*X)^{-1}X^{7} \cdot \sqrt{2} \cdot ((X^*X)^{-1}X^{7})^{7}$  $(x^{r}x)^{-1})^{\frac{1}{r}}=(x^{r}x)^{-1}$  $V_{\text{or}}(\mathcal{F}|X) = (X^{T}X)^{T}X^{T} \cdot \bigvee X(X^{T}X)^{T} \xrightarrow{\text{yrp}} V = \mathcal{E}^{L}I$ 



3000 mars y: = 3,+32-2;+4;  $\chi = \begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix} \quad \chi = \begin{bmatrix} 2 \\ 3 \end{bmatrix}$ a) x'x? x'y?

5) 3? ŷ?û? () RSS, ESS, +SS, R2? i) von (3/X) nyen megn (romoculeg) Son ha (3/x)

Son ha (3/x)

C wan Vor (3/x)

C wan Vor (3/x)  $x^{+}x = \frac{3000 |6000}{6000}$   $x^{+}x = \frac{3000 |6000}{6000}$ 

gozenore 2 jægæren

> 9/3