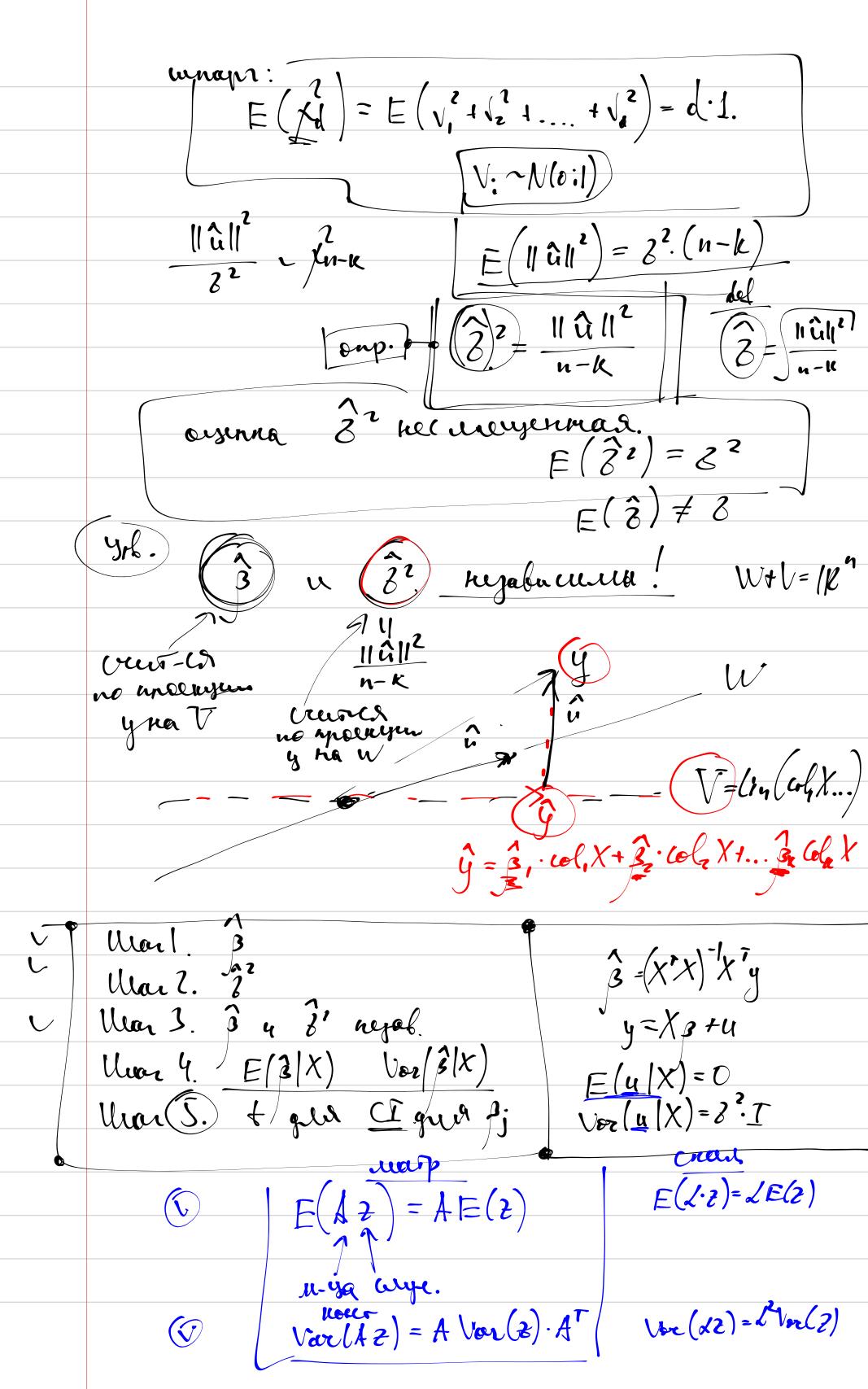


(I gur 3, 6 uzead. yarohurx u, y [nx1] Tregn- we: 1. neruna y=XB+4

2. perp (MHK.)

y=X·3 n-navr. u-nosop-6 } 3 [RX 1] × [n×k] 3. (u X) ~ [Rof] [Praj] (u(x) ~ N(0; (22) I) $\mathbb{E}(\mathbf{u}|\mathbf{X})=0 \quad \text{Vor}(\mathbf{u}|\mathbf{X})=\mathbf{Z}\cdot\underline{\mathbf{I}}.$ P(X necessor pania) = 1. dem W=n-k mor l. 3 = (X⁷X) X⁷y. w=V Mor ? (32?) |R" H-moly y y = ŷ + û HW=I-HV elan V=k V= Lin(col, X, col, X $\chi^{7} \cdot (\gamma - \hat{\gamma}) = 0$ coliX19-y y na V holus u ma W



than 4.1.
$$E(u|X)=C \quad \text{Vine}(u|X)=2^{3}T$$

$$E(y|X)=E(X)+u|X)=X^{3}+C$$

$$\text{Ver}(y|X)=\text{Ver}(X^{3}+u|X)=\text{Ver}(u|X)=2^{3}T$$

$$E(3|X)=E(X^{3}X)^{2}X^{3}y|=A\cdot y$$

$$E(3|X)=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}X^{3}y}{A}=\frac{(X^{3}X)^{2}x}$$

Vou
$$(3 \mid X) = 3^2 \cdot (X^7X)^{-1} \leftarrow \text{ he greater}$$

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