$$(X)$$
 \overrightarrow{X}

$$\left[(n \times I) - (n \times I) \right] = \left[n \times I \right]$$

$$(u \times l) \times (l \times v) = (v \times v)$$

$$X=\begin{pmatrix} X_1 \\ X_2 \end{pmatrix}$$
 What's the var (X_1) , var (X_2) , $X_3=\begin{pmatrix} X_1 \\ X_2 \end{pmatrix}$?

Gayss - Manhov: $E(e_i) = 0 \quad \forall i$ $Var(e_i) = 0 \quad \forall i$

. ei's normally distid. e~N(0)

c.f.: X~N(&M, 52)