Post-strafification Cgeram oberhyro pang-yus, a cyenny xorum gpynys (2) Grost = Epkyk, The his Tyki Ho Nh = Ph. N Reu abougnions

paquep beto open

paquep beto open

croater b gone k-toin croater b reu cobokynhacty bompanae: hs, hz, --, hk

for object total variance law e non your bus to be sopen

Var (Ypost) = E (V(Ypost Ns,..., Nk) + Var (E (Ypost Ns, --, Nk) = $=E\left(\sum_{k=1}^{K}P_{k}^{2}V_{ar}(y_{k}|h_{k})+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)=E\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)=E\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)=E\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)=E\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)=E\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)=E\left(\sum_{k=1}^{K}P_{k}\cdot\eta_{k}G_{k}\right)+V_{or}\left(\sum_{k=1}^{K}P_{k}\cdot\mu_{k}\right)$ = K=11 p2 & E(hk). (t) => konbonoseing stratak, komoptre nona gyz

 $E\left(\frac{1}{h}\right) = ?$ h_k - cn. bewrung δερμγηλι, mag.om = $n \cdot p_k$ Te boropha pazuepa n, p_k - bep- r_s y cnexob Packuag. 6 pos Teinopr bokpyr $E\left(\frac{1}{n_{k}}\right) = E\left(\frac{1}{n \cdot \rho_{k}} + \frac{-1}{n^{2}\rho_{k}^{2}}(n_{k} - n \cdot \rho_{k}) + \frac{1}{n^{3}\rho_{k}^{3}}(n_{k} - n \cdot \rho_{k}) + O\left(\frac{1}{n^{2}}\right) =$ $\frac{1}{n \cdot p_{k}} + \frac{1}{\sqrt{3} p_{k}^{3} E \left(n_{k} - n \cdot p_{k}\right)^{2}} + o\left(\frac{1}{n^{2}}\right) + o\left(\frac{1}{n^{2}}\right) + o\left(\frac{1}{n^{2}}\right) + o\left(\frac{1}{n^{2}}\right)$ $\left[\left(\frac{-N\kappa}{n^2p_{\kappa}^2} + \frac{h\cdot p\kappa}{n^2p_{\kappa}^2}\right) = \frac{-1}{n\cdot p_{\kappa}} + \frac{1}{np_{\kappa}} = 0\right]$

 $\sum_{k=1}^{2} p_{k}G_{k} \left(\frac{1}{np_{k}} + \frac{1-p_{k}}{h^{2}p_{k}^{2}} + O\left(\frac{1}{h^{2}}\right) \right) =$ Var (ypost) = = 1 × pu on + 1 × (1-pu) ox + 0 (12) / Konerusie rucua, po De Sociaiomo Sommes Var (Ypre-stating) cpabruss he york Strupeered Var(Y) = 1 5 prox + 1 5pr (hk-h) I up n > 0 postst V guar. no spakket codorni, cryraem Ka no oo => Var (Ypre) < Var (Ypost) < Var (Y) = ? borbog: ryrue syricus zapatee o suzavite suarepuneris