= 4.9 x3

Alogaponの企等一甲

3年北北村

見りを(え)=ル

V(7) = = = E(7)-4

 $E(\hat{\theta}_{1}) = \frac{1}{2} \left(\frac{1}{2} (\chi_{1} - \chi_{2})^{2} \right) = \frac{1}{2} E(\frac{1}{2} \chi_{1}^{2} - \chi_{2}^{2})$

= 1 (no+ ny=-0=-ny=) = n-1 0=

E (02) = = 1 (n 02+ n M2- 02-n M2) = 02 $E\left(\frac{\sum_{i=1}^{n}(x_{i}-x_{i})^{2}}{n-1}\right)=\frac{1}{n-1}E\left(\frac{\sum_{i=1}^{n}x_{i}^{2}-nx_{i}^{2}}{\sum_{i=1}^{n}x_{i}^{2}-nx_{i}^{2}}\right)$

因此, 命=二二(对-刃)/(n-1)為郵体変異拟で之不偏估計量,

币的=三(龙-灭)*/n局串件变要权、→之偏缺估計量。