1/16/23, 1:57 PM OneNote

Teorie odhadů

a) h je zname

$$E[\hat{\sigma}] = E[\frac{1}{n} \hat{\Sigma} | X_1 - \mu^2] = \frac{1}{n} \hat{\Sigma} E[(X_1 - \mu^2)] = \frac{1}{n} \hat{\Sigma} \hat{\sigma} = \hat{\sigma} = \frac{1}{n} \hat{\Sigma} \hat{\sigma} = \frac{1}{n}$$

b) M nervame =>
$$\hat{\mu} = \frac{1}{2} \leq X$$
;

$$E(x) = E(x = x; -x = x; x) = x = x = x; x$$

$$\times E[x^2] = E[x^2 - \mu + \mu]^2 = E[(x^2 - \mu)^2] + 2E[(x^2 - \mu)^2] + E[\mu^2] =$$

$$= 6^{2} + 2 \mu E [x; -\mu] + \mu^{2} = 6^{2} + \mu^{2}$$

$$= 6^{2} + 2 \mu E [x; -\mu] + \mu^{2} = 6^{2} + \mu^{2}$$

$$= 2 \mu E [\mu - \mu] = 0$$