## 30. H. 20. Cheyrype. 93 or newyww H.

П насти настрише придажение ИН С посмещью Уг. .. Хт. (месриородиой) Решение: В жореше об вани прогнозе на доназами, ynco X++ = E (X++s / X+ ... X+).

B japare 3 mos off men goucement, uno E(Ken/ X1... X4) = E(MO)/X1... Xn). A в recheme ownmarea na вызсиими,

runo E(110) / X1=27... Xt=22) = 110)\* = (1-5+ /m + 4+ Xt, rge Xt = 15 xi =>/X+1 = 11-5+/m + 5+ /t 

Од Масими мастучиле при тими име име Минине: помощью пил. оргорорной комо. Z = 2 G:Xi

i=0: M = Co + 2g·M = V, r=0... = , No=1,

i>d: CoV( Yen-2; Xi) = E(Yen-2)Xi - Eken-2)EXi = 0. => cov(x11, x1) = 2,5. cov(x; x) 10 - no remne => a = 12cj + ci-s2 " 8gs+a 2 1 nhocuoen (K1... Xt) => E/µ(+)-2/Xi-0; [-1. t (+) >> Ci = a(1-20i) => ci-lee oquienolore => 52 c = a-atc

3anumen vor (u101-2; xi) gbynes inovotaria,

· COV/4101-2; Xi) = E/4101-2) Xi - E/4101-2) · EXi = 0- (E/4101-EZ) · EXi = -tm-\$ci.m) m = -m2/1-5ci)

•  $cov(\mu(0)-z_i x_i) = cov(\mu(0);x_i) - cov(z_i x_i) = a - cov(z_i x_j x_i) = a - z_g cov(x_j x_i) = a$ = 0 - 5 ci. q - Ci.sh = 9/1-5 ci) - Ci.s?

=> - M2. (1- 5ti) = 9/1- 5 ci) - cis?

=> Ci = (1-\frac{1}{2} Ci)(a+m2)

=> все Ci - одинаковоге. и равио с Haipen UX:

32. c = (1-t.c)(a+n2)

 $\frac{S^2C}{N^2+Q} = 1-t\cdot C$ 

C/t+ 92 =1

 $= C = \frac{1}{t + \frac{s^2}{s^2 + t / m^2 + a}} = \frac{m^2 + q}{s^2 + t / m^2 + a}$ 

=> Z = (3t Xi) · C = [Xt · t/m2+0) (- orber

3) honozyste yenobuois (npu japonuon o) nepolino ker u kr... ke,

gou-to, runo E(ker/kr... ke) = E(MO)(ke... ke)

Решеши: Рассм. Е (410) - f(x1... Xe)) =

= E(N(0)-E(X++1/X+...X+)+ E(X+++/X+...X+)-f(X+...X+))=

= E(U10)-E/X++/X+... Xe)/2 + 2 E (U10)-E(X++/X1...Xe)/(E(X++/(X1-Xe)-f(X1-Xe))+ + E ( E ( K++1 / Ke . - Ke) - f ( Ke . - Xe) ) 2

Muren

E ( M(0) - E(XE+1/X2...XE)) (E(X++1/X2...XE)-f(X2...XE)) = E [ E ( .....) | X1....Xt) ] =

= E [ [ [ X + + + | X + ... | X + ] - f(x - X + ) ] . E ( u(0) - E | X + + i | X + ... | X + ) | X + ... | X + ) ]

Elkerilka ... Xe) 4 f(x1.- Xe) - regrephenos oncoc. 5/xe. .. Xt)

E ( M(0) | X1 ... Xe) - E ( X4+1 / X1 ... Xe)

=> Enf  $E[\mu(\theta)-f(x_1...x_t)]^2$  - goennaer munique when  $f(x_1...x_t) = E(x_t+\epsilon/x_t...x_t)$  -

TIR 1-e charaence me jabueur or f,

a 2.e u 3-e spyr=0 npu rawon bosope f. 

MO MOI- 80 peaces, 4000 û[0] = E[M(0)[X1... Xt] - 9ns noder gryner eë onne equins y gryner eë (X1... X4) = E[M(0)[X1... Xt] - 2ns noder gryner eë onne equins y gryner eë (X1... X4) = E[M(0)[X1... X4] = E

E(Ula) | X1.... Xe) = E(X4+1/X1... Xe). 479.