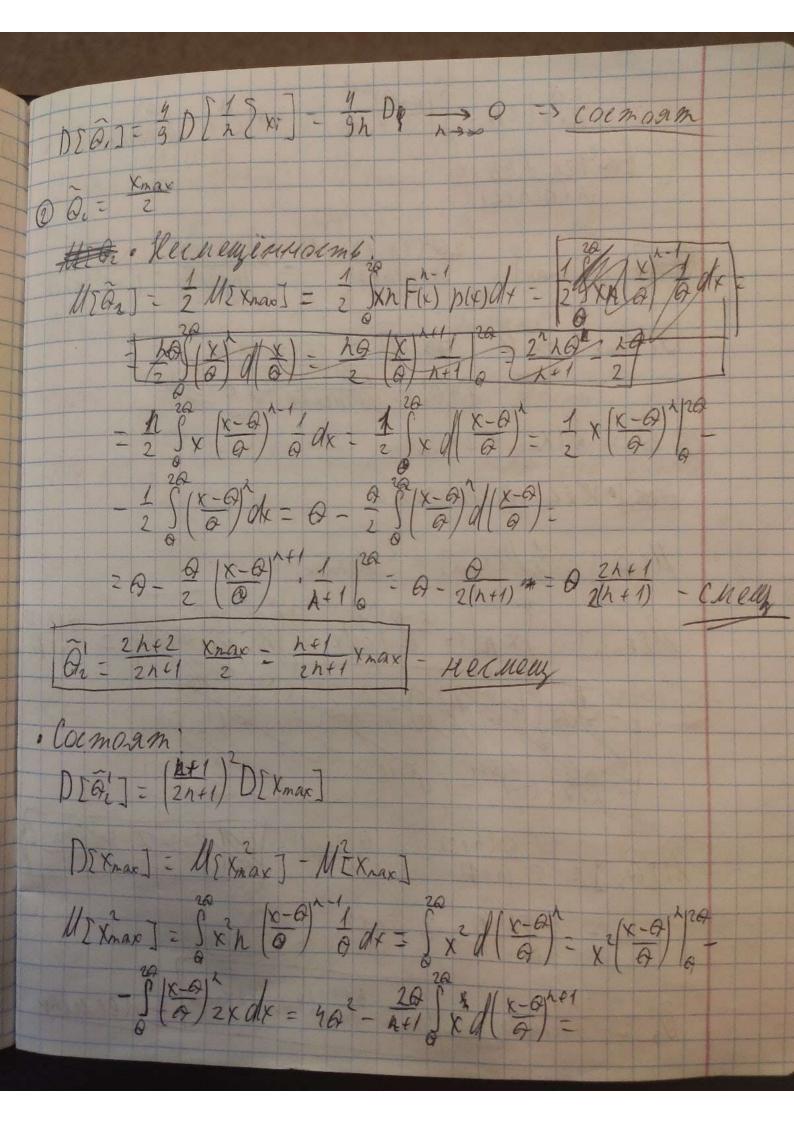
9~ R[0, 20] $p(x) = \begin{cases} \frac{1}{2}, & x \in [0, 2a] \\ 0, & x \notin [0, 2a] \end{cases}$ a) QUU 21(a) = My = \$\frac{1}{9} \frac{x}{9} dx = \frac{x^2}{20|_0} = 20 - \frac{2}{2} = \frac{3}{2} a (10) = fr(0 = x; = 20) = fr(man x; 220) - man Oz: Max 1 = 5 (xmin + 2 xmax) o) 0 a, = 3 x · Keenengaenami. M[Q1] = 3 M[\$ [x;] = 3 Mg = 3 . 3 Q = Q Heeneny · Coemognie 1640em6.



= 402 - 20 (20 - 8 (x-0) dx) = 402 h + 203 - 402 - 20 (x-0) dx) = 402 h + 203 - 202(21244h41) (h+1)(h+2) DEXnax] = 202(2h2+4h+1) - 02(2h+1) 2 hor (h+1)2 2 (2h)2(n+2) DIXMAC] > 0 PA Q' - coemoam D D[Q'] - [REDIZION - 20 D) 3) A3 = \$ (Xmin + 2 xmax) Recuewennom6, 11 E Q 3] = 3 MIXmin] + 3 MIXmax] Mixmin] = Sxn(1- x-a) idx = Snta) do = & (her) = 10 S (0) d - 10 (0) 1 - 10 (0) 10 M[A] = 5 (n+1) + 2 Q(21+1) = 2 (21+1) = (21+31+2+42+41+6). = \(\frac{\text{Gh+1}}{5(h+1)} = \text{A} \frac{5h+5}{5h+5} - \text{Emens.} 05' = 5h+5 03 = 3 03' = h+1 (*min+2 xmax) _ nee neux

DE Q'3 [= (5 LEY) 2 (D[Xmin] + 4 D[Xmap] + 4 COV (Xmin, Xmap)) DEXMIN] = (2+0(1+2) = 0 (1+2) = (1+1)4(+2)6)2 COV(Knin, Kmax) = UE Knin Kmax] - UE Xnin] MI xnax] L(4, 2) = {F(2) - (F(2) - F(4)), 22,4 - coba zaz nauna. HEY Z) = Dydz - h(A-1) (F(Z)-F(G)) F(G) F(Z) ZZG= = n(h-1)(= -y)^-2/02 M[xmin xmax] - \$\frac{1}{2} \tag{2} \t - Q2(2L+3) - L+2 CaV(xmin, xmax) = 22(22+3) B(2+2) B(22+1) - 0°
(aV(xmin, xmax) = 2+2 2+1 [2+1] (2+1) - (2+1)4(2)

c) p(y) = {e+9,921 $\frac{P(G|X_n)}{P(X_n)} = \frac{e^{1-\beta \int_{-1}^{1}} p(x_i, \theta)}{P(X_n)} + \frac{e^{1$ 0,021 P(a/xx) - {e'-1/7p(x; a) B, a4/ lon un obha Se1-8/1p(xi, a) Bd0 = 1 => B= Se1-0 17 x Bda - Se1-0 1 17 1 Bda= Inp(A) xw) = InB+1-0+ hIn10-1)- 08hx; 1/2 = 0 -> -1 + 0-1 - 2/2x; = 0 - 5 0. = 1 + 2/2x; +1 Sp(A1x2) dA = 0025 I: (f1) f2) \$ p(a) x) da - 7,023

Inly-1) dy = 1812 = 1-0,95 1990 (fi-1) = 3025 = 3 51 = 50,025 + 1 July-1) 2-1/4 = 1+0.95 -1-(f2-1) = 3593 Je 59,025 +1 1-(f2-1) = 0,025 => f2 = 20,945 & 1 Dobenum. unemenbal. (mora 11812):
[20,025 +1; 20,975 +1)] => [max & 20,975] Marka 1+ 20,925 e) OUM G= 3 x = 321 $f(2) = \frac{2}{3} 2, -3 \nabla f(2) = \frac{2}{3}$ -> 5 - \ \frac{4}{3}(22-21^2) X= (K11) = 22 - 21 = 100 1 - 6 m Mo, 1) ~ pars 1 e - 2 fit for the 10,025 -1962 3 12-23 - 196 2 3 12-23 - 196 2 3 12-23 - 196 2 3 12-23 - 196 2 3 12-23 - 196 - 206. unmental