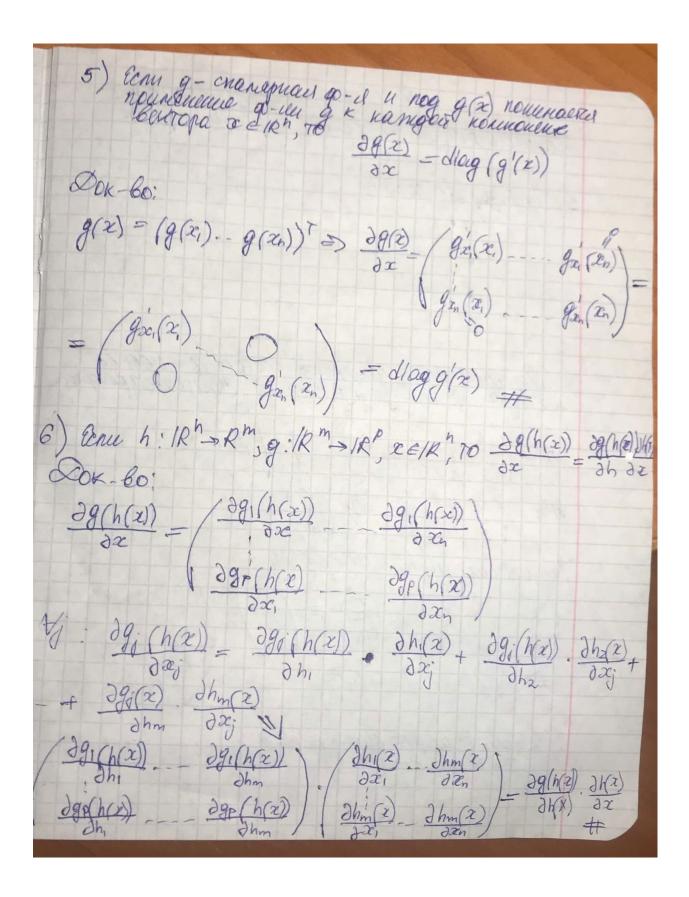
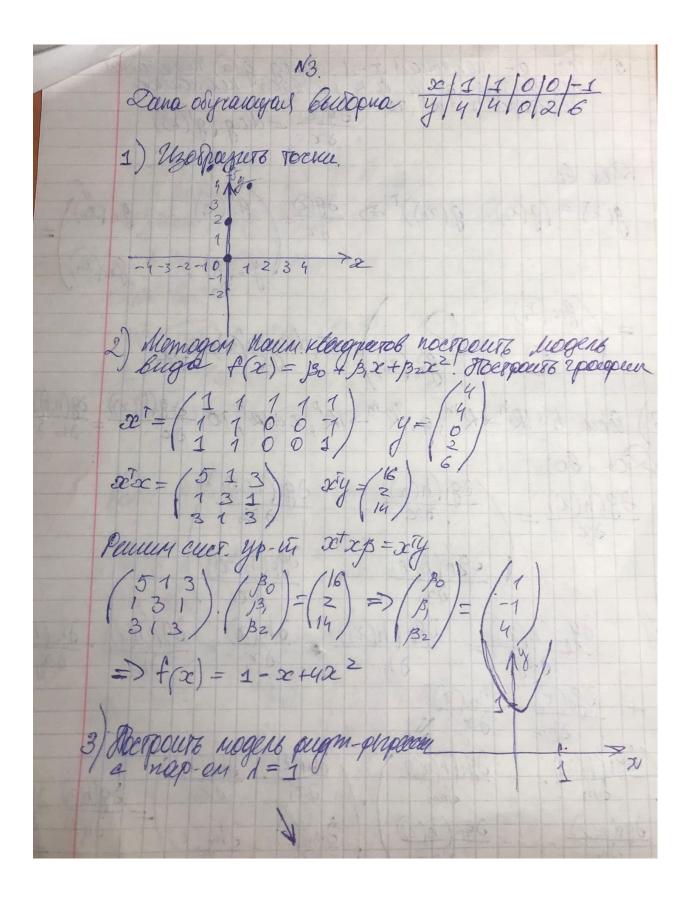
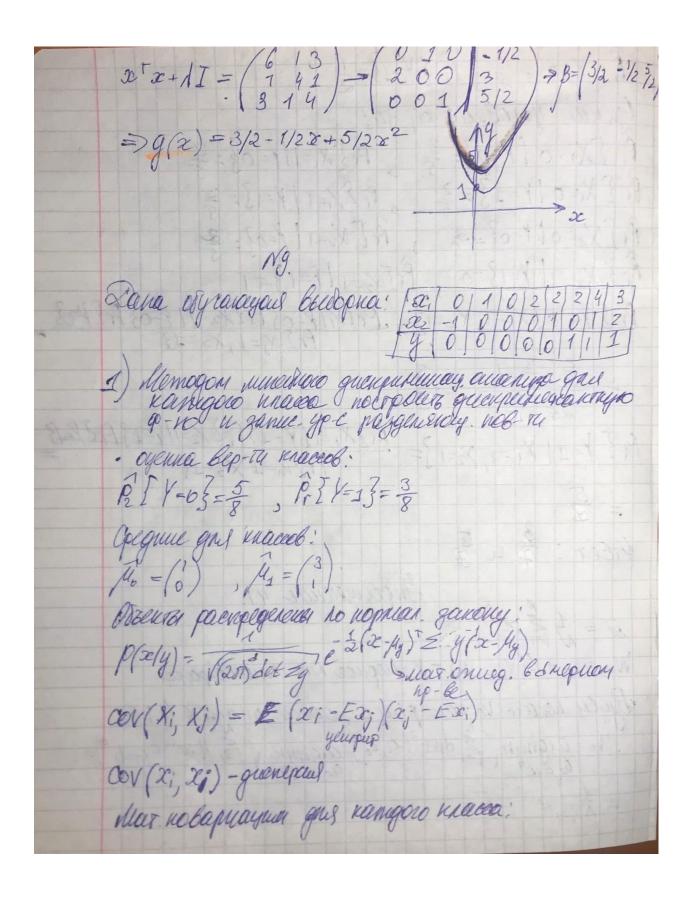


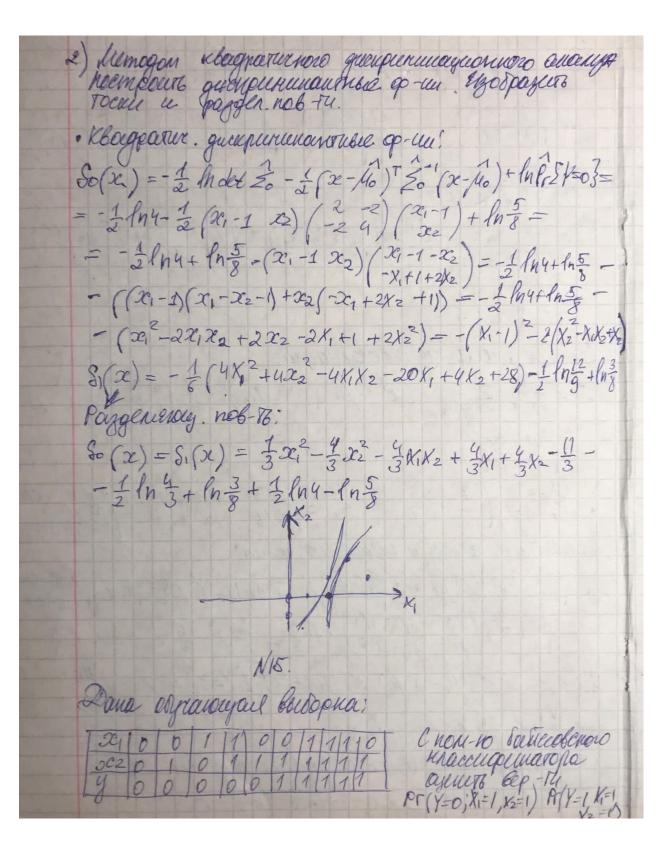
 $\frac{\partial (Ax)}{\partial x} = \begin{bmatrix} \frac{\partial (Z_i a_{ii}x_i)}{\partial x_i} & \frac{\partial (Z_i a_{mi}x_i)}{\partial x_i} \\ \frac{\partial (Z_i a_{mi}x_i)}{\partial x_i} & \frac{\partial (Z_i a_{mi}x_i)}{\partial x_i} \end{bmatrix} = \frac{\partial (Z_i a_{mi}x_i)}{\partial x_i}$ = $\begin{bmatrix} a_{1} - a_{1} \\ a_{m_{1}} - a_{m_{1}} \end{bmatrix} = A \#$ 3) Eenu $A \in \mathbb{R}^{h \times n}$, $2 \in \mathbb{R}^{n}$, to $\frac{\partial (x^{T} A x)}{\partial x} = (A + A^{T})x$, & racmuoca any AT=A, TO D(XTAZ) = 2AZ DOK-60! $\begin{array}{c}
\chi(x) = 00; \\
\chi(x) = (2\pi x_1 - 2\pi x_1) = 7 \\
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\end{array}$ $\begin{array}{c}
\chi(x) = (2\pi x_1 - 2\pi x_1) = 7
\end{array}$ Come AT=A TO A+AT=2A # 4) Eine rell's TO 2 /2 = 20 DOX-60 $||x||^2 = (x,x) = \xi x_i^2$ $\frac{\partial (\leq x_i^2)}{\partial x} = \begin{bmatrix} \frac{\partial \leq x_i^2}{\partial x_i} \\ \frac{\partial \leq x_i^2}{\partial x_i} \end{bmatrix} = \begin{bmatrix} 2x_i \\ 2x_n \end{bmatrix} = 2x$







$$\frac{2}{6} = \frac{1}{N_0 - 1} \underbrace{\frac{1}{\sqrt{10}}}_{\sqrt{10}} \left(\frac{2^{(1)}}{\sqrt{10}} \right) \left(\frac{2^{(1)}}{\sqrt{10}} \right)^{\frac{1}{2}} = \frac{1}{4} \left(\frac{1}{10} \right) + \left(\frac{1}$$



P- EY = 03 = 1 , Pr EY=13= 1 Oyenun yerobusie Rep 14! Pr [X1=0 [V=0]=3 , Pr [X1=1 | V=0]=3 Pr [X1=0 | V=13=3 , Pr [X1=1 | V=13=3] Pr[X2-014-03-3, Pr[X2=1/4-0]=2 Pr & X2 = 11 Y=13=0, Pr = 13=1 Pr 5 1 = 0 1 X1 = 13 X2 = 13 = Pr [X1 V = 03 Pr [X2 = 11 Y = 03 Pr [1 = 03] Pr [X = 13] = Pr [X = 13] Pr = 1 | X1 = 1, X2=1 }= Pr = X1 = 1 | Y=1 } Pr = X2=1 | Y=1 } Pr = X2=1 } Pr = X2=1 } Orber: 3 u 5 Inpointellure 4.1. 死 = 打艺 (1) Wx = Vo + L(V1 -- Vx) - R-riepuse hun elmorosopage · Eggly newcert vo kan plue gagacu minimize to: Vo = argmin (= d1st 2(2i, 40)) = argmin (= 11 x (1) aol(2) = ao Ellen = 422(1)==