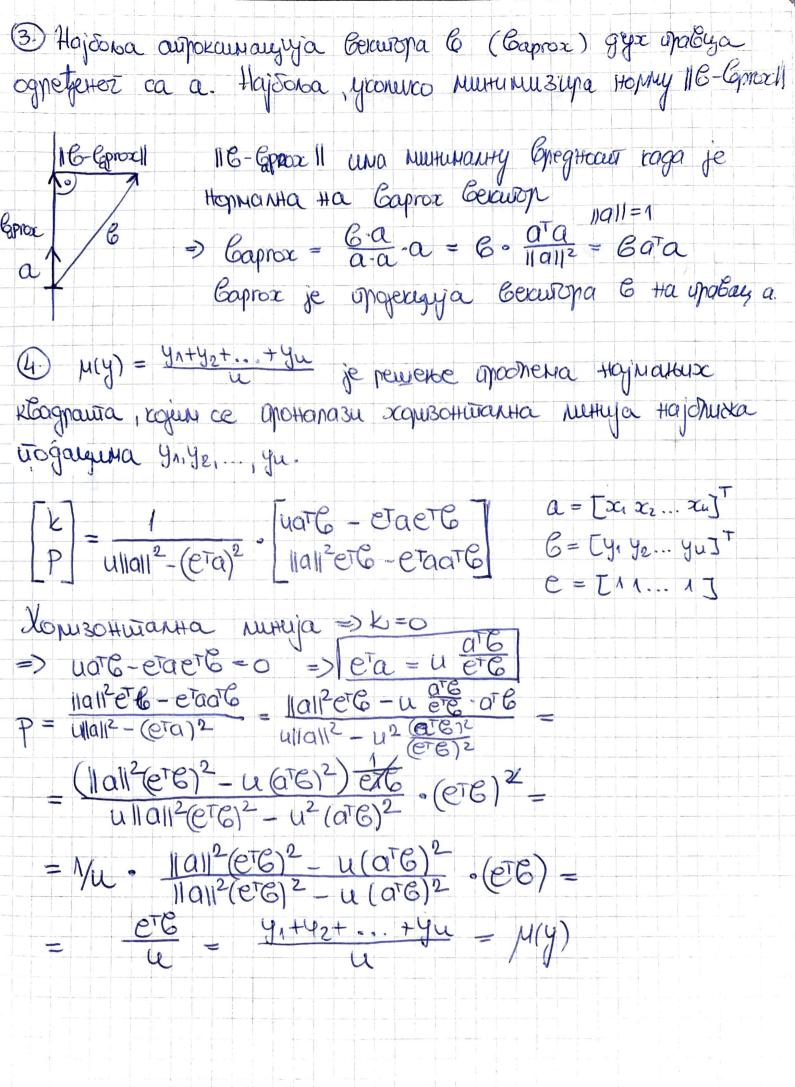
Anexant Curedpart 16995 VIII gonathe sogainax [MMP] 1/2 1) pegyrobarra QR opakurpusayuja A∈Muru det(A) ≠0 Ax = 6 x pewere modrena try markux kbagnawa $A\hat{x} = QQ^T6$? $||A\hat{x} - 6||^2 = ||6||^2 - ||Q^T8||^2$ Rx = QT6 = premere animena je premere ipodnena Hajmaranz 2x = QTG / Q=x QR2 = GQTG AX = QQTG | QQT = I 11 Az - 6112 = 11 QQTE - 6112 = (QQTE - 6)T(QQTE - 6) = = (QQTG)T(QQTG)-(QQTG)TG-GTQQTG+GTG= = ETQQTQQTG - ETQQTG - ETQQTG + ETG = = ETQQTG - 26TQQTG + 6TG = = (QTE) (QTE) - 2(QTE) (QTE) + ETE = = 118112-11QE112 => | | | Ax2 - 6 ||2 = ||6 ||2 - || QTG ||2 |

2.) QEMихи наирина са диноченалние колонама вер Q.Q+I QQ=I $\hat{x} = 0.6$ MUHIMUSUPA $||Qx - 6||^2$? 110x-6112 = 110x-6112 $(Qx-G)^{T}(Qx-G) \geq (QQ^{T}G-G)^{T}(QQ^{T}G-G)$ 200-Qx - xQ6-60x+66 = (QQT6) TQQT6 - (QQT6) TE - ETQQT6) + EE $x^{T}x - 2(Qx) \cdot G \ge e^{T}aa^{T}aa^{T}6 - 2(Qa^{T}6) \cdot G$ 1|x1|2-2(Qx)-6 = 6TQQT6-2(6T)(QQT6) 11x112-2(Q00)6 2-60016 11x12-2x7076-670076=0 11x112-2(x)-(QTG)-ETQQTG=0 11x112-2-11x11-11QTE11 cos(x(x,QB)-ETQQT620 Hajmarba GregHocut 3a $\cos(x(x, a(6)) = 1$ 112112-2112/1/10-611-67QQ76 20 11x112 - 2110c1111Q'611 - (Q'6) (Q'6) 20 11x112-211x11197611-1107611220 (1/2011-1107611) =0 YEER WAYHO => WONG3HU 43/103 110x-6112=110x-6112 $\Rightarrow x = ac$ jecute миничизација скорме //ax-6/12



(5) a) Uspasium
$$O(V+u)$$
 3a claim og engraja $\Re(V, v) = 0$, $\Re(V, v) = 1$

8) $V_1 \otimes V_2 \in \operatorname{Generola}(V_2) = 0$

8($V_1 \otimes V_2 \otimes V_3 \otimes V_4 \otimes V_4 \otimes V_5 \otimes V_$

Anexuet Cureopat 16995 VIII gonatu zagawak [HIYP] 2/2 (5) δ) $\mu(w) = \mu(\sqrt{2}(0+0)) = \frac{(\sqrt{2}(0+0)^Te}{e^Te} = \frac{1}{2} \cdot (\frac{o^Te}{e^Te} + \frac{o^Te}{e^Te}) =$ = 1/2 · (M(0) + M(U)) = 1/2 (2M) = H $\mu(\Delta V) = \mu(\Delta V) = \Delta V^{T}e = \Delta \mu(V)$ $O(dv)^{2} = \frac{(dv - \mu(dv)e)^{+}(dv - \mu(dv)e)}{=}$ $= \lambda(v-\mu(v)e)^{\top} \lambda(v-\mu(dv)e)$ = ×20(V)2 $O(w)^{2} = O(1/2(0+0))^{2} = (1/2)^{2} \cdot O(0+0)^{2} = 1/4 \cdot (O(0)^{2} + O(0)^{2} + 29(0,0)_{0}$ $= 1/4 \cdot (0^2 + 0^2 + 280^2) =$ = 1/4 · (202 (1+9)) = $= \frac{1}{2} 0^{2} (1+9)$ => O(W) = 1/204(1+3) = 120 V1+51 -14P 41 => 041+P42 => 040(W) 40 $=) \quad |O(w) = O \circ \frac{\sqrt{2}}{2} \circ \sqrt{MD}$ 0 4 O(W) 40