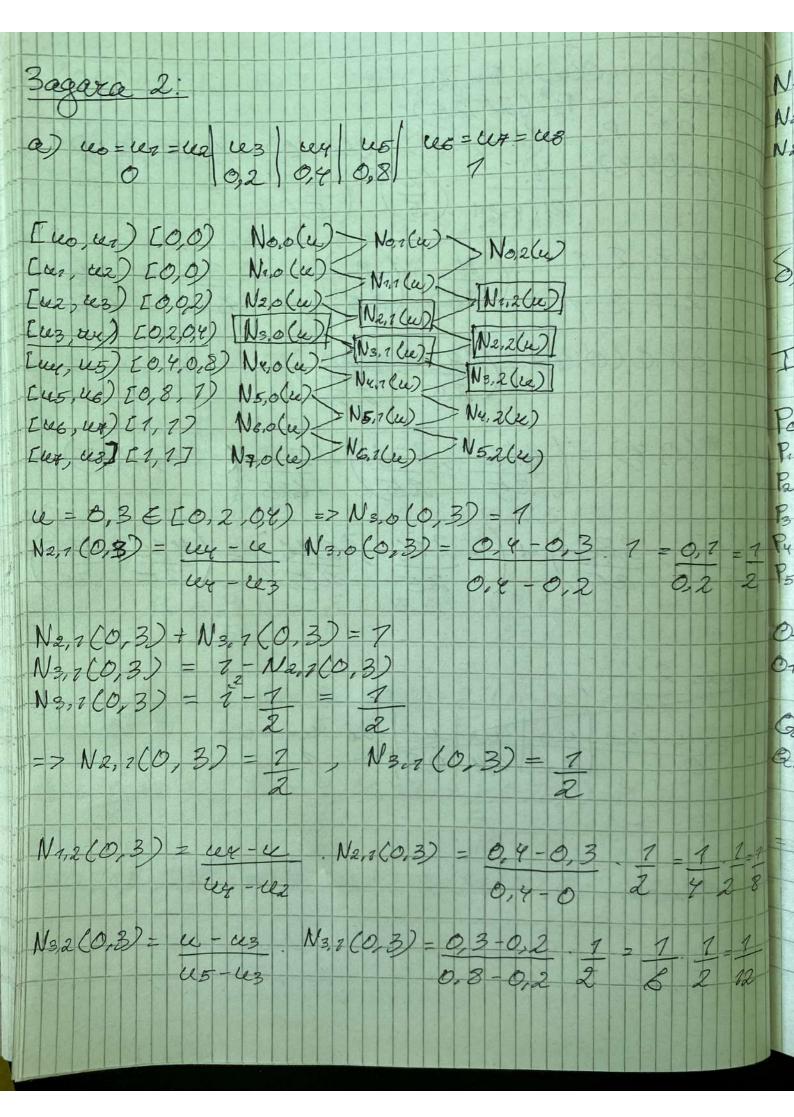
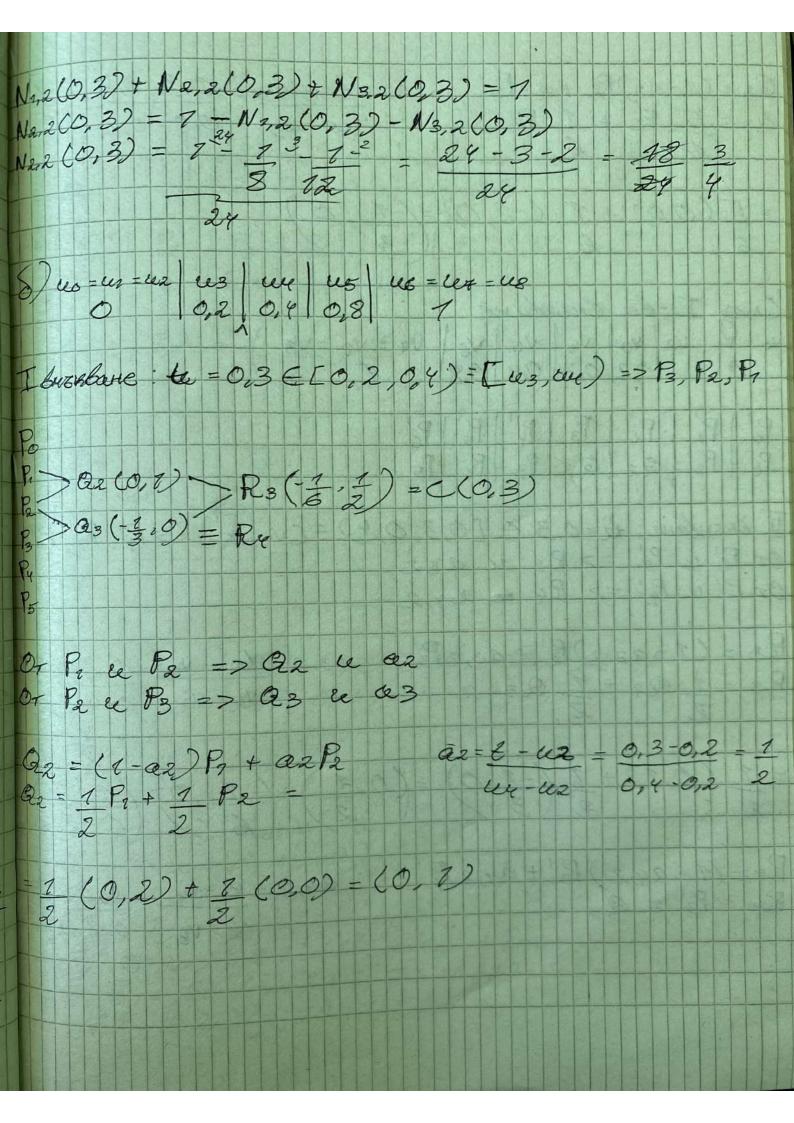
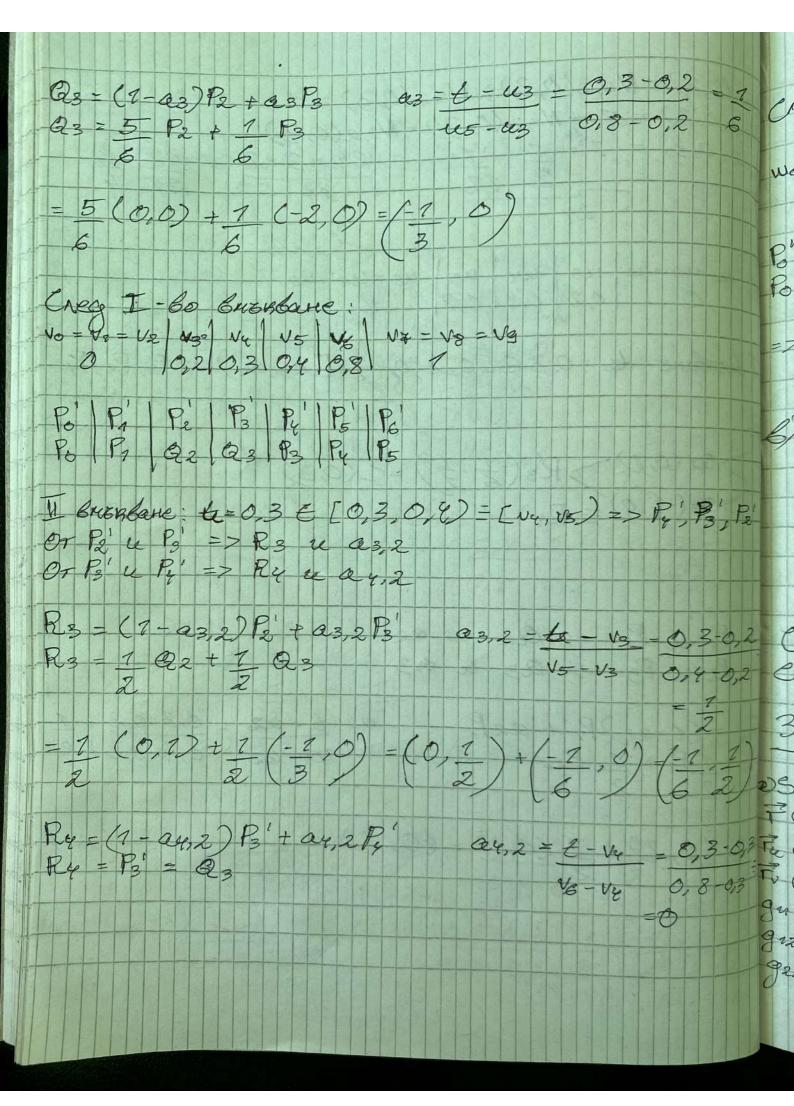
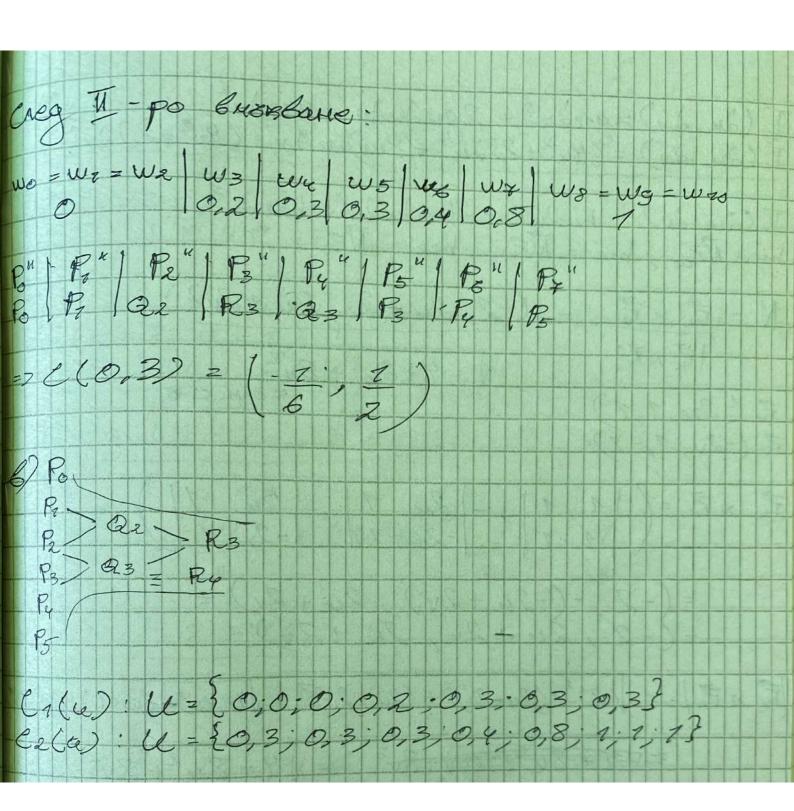
Bagarca 1: a) Po (0,0) > Pro (10,20)-30 (126, 20) P, (25,50) Pe (50,0) Pu (35,30) Per (33, 74) P3 (0, -25) P2 (30, -20) Paz (14, -12). Py (-25,0) Pos (-20-25) $R_0 = \frac{3}{5} R_0 + \frac{2}{5} R_1 = \frac{3}{5} (0,0) + \frac{2}{5} (25,50) = (70,20) R_2$ $P_{11} = \frac{3}{5}P_{1} + \frac{2}{5}P_{2} = \frac{3}{5}(25,50) + \frac{2}{5}(50,0) = (15,30) + (20)$ = (35,30)P12 = 3 P2 + 2 P3 = 3 (50,0) + 2 (0,-25) = (30,0)+(0,-10) = (30,-20) $P_{13} = \frac{3}{5}P_{3} + \frac{2}{5}P_{4} = \frac{3}{5}(0, -25) + \frac{2}{5}(-25, 0) = (0, -25) + (-20)$ $P_{20} = \frac{3}{5} P_{20} + \frac{2}{5} P_{21} = \frac{3}{5} (20,20) + \frac{2}{5} (35,30) = \frac{3}{5} (35,30) = \frac{3$ = (6, 72) + (74, 72) = (20, 24)

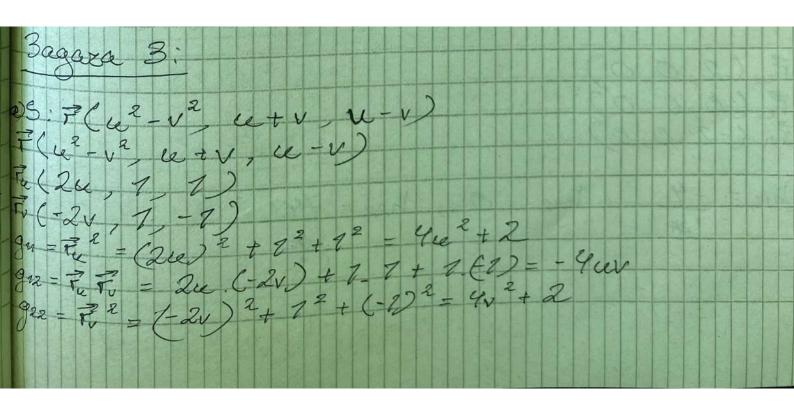
C'(0,4) = 4[P32-P30] = 4[(12# 18) $(0,2) = 43[P_{22} - 2P_{21} + P_{20}] = 12[(14, -12) - 2(33, 14) + (20,24)]$ = 12[(14, -12) - (66, 28) + (20, 24)] = 12(-32, -16) = (-384, -192)8) Po(0,0), Pr(25,50), Pr(50,0), Pr(0,-25), Pr(-25,0) Qo = Po = > Qo (0,0) Q5 = Py = > Q5 (-25,0) Q₁ = 1 P₀ + 4 P₁ = 2 (0,0) + 4 (25,50) = (20,40) 5 5 5 $P_1 + 3P_2 = 2(25,50) + 3(50,0) - (10,20) + (30,0)$ = (40,20) $Q_4 = \frac{4}{5}P_3 + \frac{1}{5}P_4 = \frac{4}{5}(0, 25) + \frac{1}{5}(-25, 0) = (0, 20) + (-5, 0) = (0, -20) + (-5, 0) = (-5, -20)$ => Q0(0,0), Q1(20,40), Q2(40,20), Q3(30,-20), Q4(-5,-20), Q5(25)











- I (du, dv) = gridue + 2 graduedv + gradv 2 - I (du, dv) = (4u² + 2) du * (8uv) du dv + (4v² + 2) dv² Mar = NFue, haz = NFuer, haz = NFuer N = Fre x Fr = (-2, 2u + 2v, 2u + 2v) (元×元) V4+842+8V2 = 03H. C* Fu (Que, 1, 1) -70 (-2v, 7, -2) Fux 7 = (1 1) - | 2u 1 | 2u 1 | 2u 1 | =(-2,-(-2u+2v),2u+2v)==(-2,2u+2v,2u+2v)The x 7 1 - (-2)2+ (2u+2v)2+ (2u+2v)2 = J4+ 4v2+ 8w+4v2+4 = 14 8 4 2 1 26 cm + 8 2 = 14 + 8 4 2 + 8 v 2 Pere (2,0,0) Few (0,0,0) hin = -4 h12 = 0,

 $\frac{795 \cdot -2 (x - (u^2 - v^2) + (2u - 2u) (y - (u + v) - (2u + 2v) (z - u)}{79 (u = 3, v = 1)}$ $\frac{795 \cdot -2 (x - 8) +3 (y - 2) - 8 (z - 2)}{795 \cdot -2 (x - 8) +3 (y - 2) - 8 (z - 2)}$ 6) H = gn h22 - 2 grz hiz + gaz hn H= (42+2) (42 + (4,2+2) (4) 7 * 2* H=-1642-8-1612-8 2(14 + 842 + 842)3 H = - 1642 - 26 v2 - 26 2/5 & + 8 & 2 + 8 v 2) H2-36 (w2+ v2+1) 2 (V4 + 842 + 8v2) H= -8(42+1) (Ve+8w2+8w2)