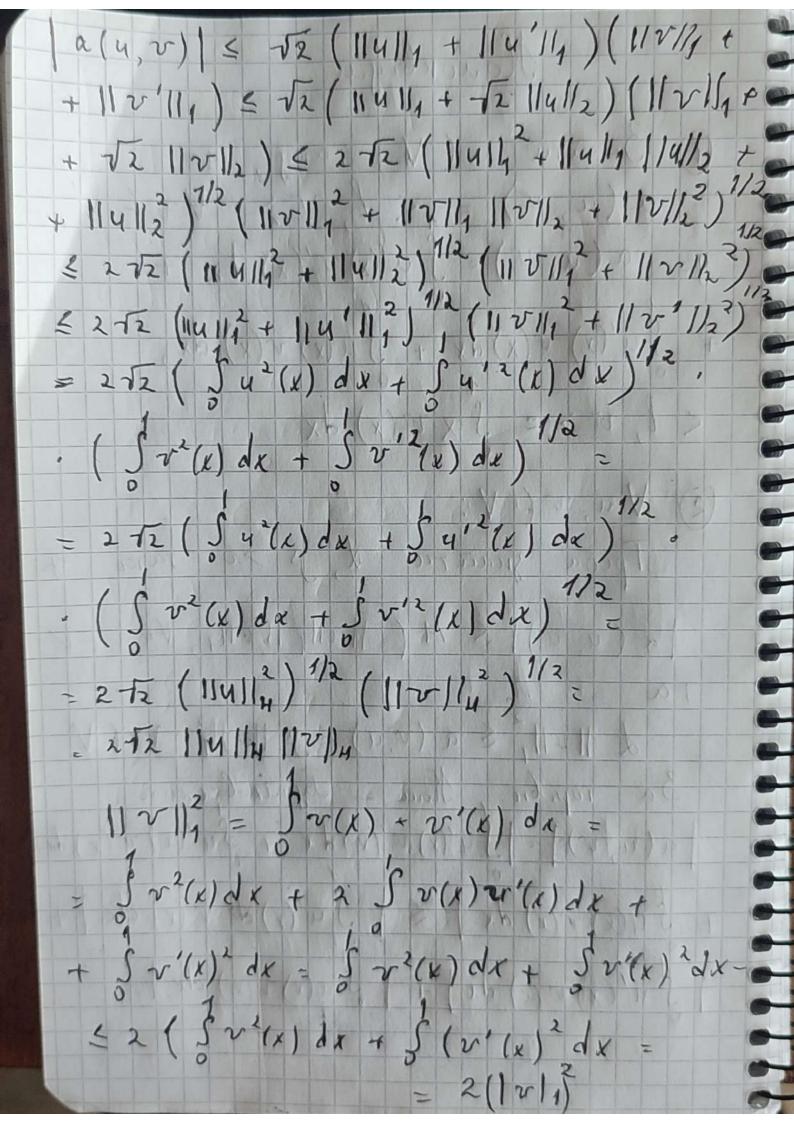
Horokbigu (1) Brantu uf V, Taky, mo a(u, v) = 1< l, v>, \v \ \, ge a (u, v) = Su'(x)v'(x) dx + + Su'(x) v(x) dx + Su(x) v(x) dx,

(l, v):= S x v(x) dx

(ε) Vu, v (V:

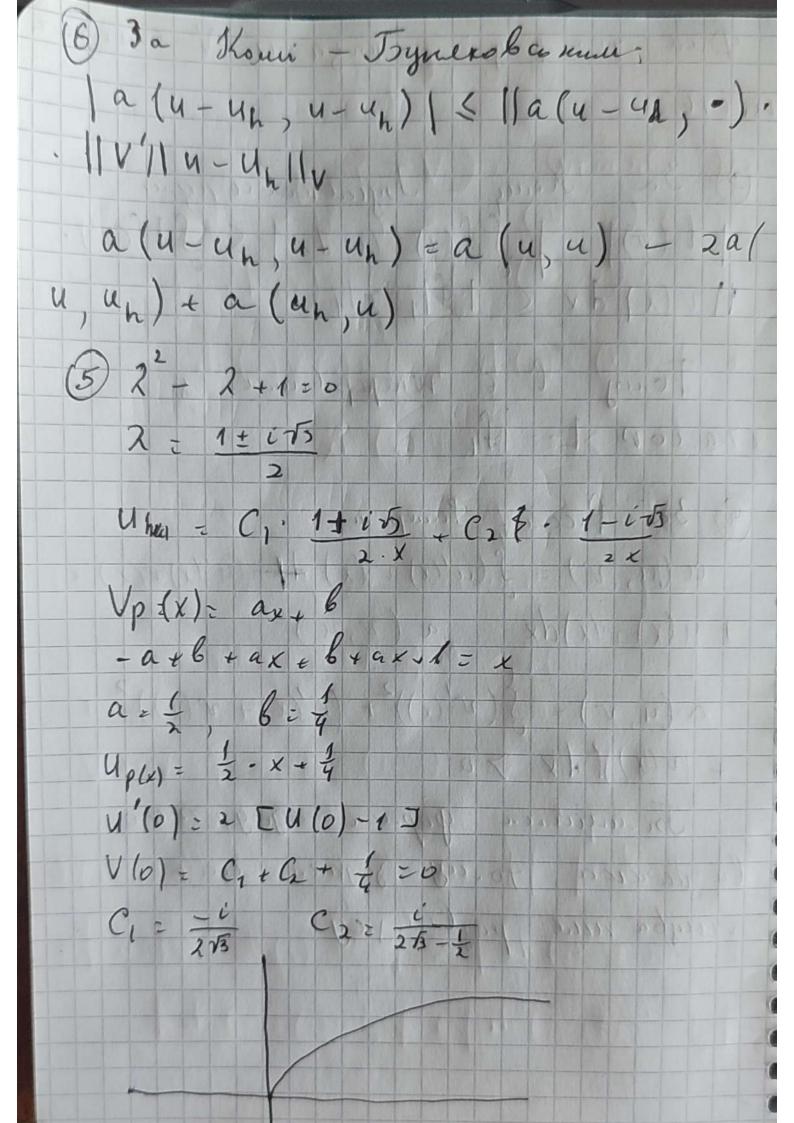
Τρεδα γιατιτά d, β >0 σακί, γο 1a(u,v) 15 M & 11ull, 15v11, 44,v & V ta d ||v||, ≤ a (v, u) ≤ p ||v||, ∀rf V 3a rupibre. Komi - Trymtrobço koro: |a(u,v)|=|Su'(x)v'(x)dx + Su'(x)v(x)dx+ + Su(x) v(x) dx | < | Su'(x) & v'(x) dx | + Su'(x)v(x) dx | + | Su(r)v(x) dx |



Due 7000, 405 nopaga 44 V-luintur micto, 3 3a Kony - Trycel Kob co regues $|l(v)| = |f(x)v(x)dx| \leq |f(x)|$. Tony l & renepepbrense zi cravop L = 1fm (4) 3a Piccon - Genepous

a (u, v) = \$ (u'(x) v'(x) + u'(x) v(x) =

+ u(x) v(x) dx - a (v, u) a(4, v) = S(v(x))2+ (v(x)+v(x))2+ + (v(x))2 dx >0 Toi muitur gopun grogaruso bu juarena, jo my jagara ma & i augha une poglise sieg



 $\begin{bmatrix} 2 & -1 & 0 \\ -1 & 2 & -1 \end{bmatrix} \begin{bmatrix} c_1 \\ c_2 \end{bmatrix} \begin{bmatrix} 1/6 \\ 1/2 \end{bmatrix}$ 4(0) =0 N = 3 2 enementa 3 byznaem Masus 1/3, X2 = 2/3, X3 =1 € C, + C, X, erayo x € [0 1/3] € C3 + Cux, erayo x € [1/3,1) $u_{\mu}(x) =$ a_{1,2} 0 0 0 0 0 0 a_{2,2} a_{3,3} 6 6 6 a,,, ag,4 00 23,2 0 94,3 04,4 0 24,50 0 0 0 ac,5 ac,6. * N= 3 || un || = S| un (x) |dx = S| 1,5x + 2x) dx. 1/4-4/1/2 \$ 14(x) - 4/2)/dx=

114n11, ~ 0,4491 u -un11 2 114/11/2 / 5 11 4/2 - Un 1/1 =