Igoberens Vigo 203) 4:46913 --- L2 [0,1] $f(x(s)) = \int st(1-st)x(t)dt = \int s^2 \int t^2x(t)dt$ Agadiquen yuragini gregoriusentrasu who gil L.] x(t) E B; (0) [(+h) -(+x/s) = (S+h) tx(e) dt -(s+h) ftx(e) dt #- s tx(e) dt + s ftx(e) dt = $\|h\|_{0}^{1} t \times (v) dt - \|h(2s-h)\|_{0}^{1} t \times (t) dt \|\frac{h}{h \to 0}^{1} \to 0$ => A Br (0) yuguemanten =, => A freeze neupepalen. Tempo wangen er menon $A \times (s) = s \int t \times (t) dt - s \int t^2 \times (t) dt = \lambda \times s$ 52 Stx16) dt - 53 Stx (4) dt = x5x(4) | J. ds $\frac{1}{3} \int t \times t + dt - \frac{1}{4} \int_{0}^{4} t^{2} \times t + dt = \lambda \int t \times (t) dt$ $\left(\frac{1}{3} - \lambda\right) \int t \times (t) dt = \frac{1}{4} \int t^2 \times (t) dt$ Teneps gunomaem na s?

 $s^{3} \int t \times t + \lambda dt - s^{4} \int t^{2} \times (t) dt = \lambda s^{2} \times (s) dt$ $= \int t^{2} \times (t) dt - \int t^{2} \times (t) dt = \lambda \int t^{2} \times (t) dt$

(20.12) \$-c/c; \(\lambde{\phi}\geta(\phi); \lambde{\partial}\) \(\lambde{\phi}\) \(\ Ruz (A-21) Ri - possiblenco => A-II nergepulno of portun => im (f-ld) = cm Ri = H =) \ X & N dy : X = Riy Torgo < Rxx, y>= (RxRi' z,y>= (Z,y) · (grynain congram & C/c han ayuwa 4c <x, Ray>= (Rit, Ray) = (Z, RiRay)=(Z,y) DED (20 15) N=00- mgme A-cle. ilimila - C.S. Torga Xx Ax = Idixi, ige X: - code znaves Benga, word d; 107. Tuesdegra - Mungra of Tik H - 00 hopes, 00] y fo: y 1 xi ti => be d; =0 =) ty=0=> g chr {x}=> \ \lambda=0- (.3.