9.2 Wilvacje ahusty une warstry materialu: -du(x) -d= sinx U(0)=0 -warrench briegowy Dividhleta w x=0 du(2)

-u(2)=0-waruneh bregowy Cauchylego w x=2 $x \in [0;1]$, $\Omega = (0,1)$ [0,1] $\exists x \Rightarrow u(x) \in \mathbb{R}$ Divionleta, ale jest on vouvry, Wystepuje warmen wisc nie musie wpnowadnai shifty. -u'-u=jinx/·v, u'(2)-u(2)=0=) u'(2)=u(2) - Su"vdx - Suvdx = Sinxvdx $\int u'vdx = -\int u'v'dx + u'(2)v(2) - u'(0)v(0)$ -(-su'v'dx+u'(2) v(2) -u'(0) v(0))-suvdx=sinxvdx Ju'v'dx - Juvdx - u'(2) v(2) + u'(0) v(0) = Jinxvdx Poniewai many warrenet Divioleta, to nasta furtige testujaca, va bregu bedrie arbitralnie vouna 0. Su'v'dx-Suvdx-u(2)v(2)= sinxvdx, B(uv)= Su'v'dx-Suvdx-u(2)v(2) L(v) L(V)= finxvdx