Bortiomig Nieledi Odkodatemie sprazyste -ax (E(x) du(x))=0 E(x)= (3; x = [0,1] (5; x = (1,2) du(0) + u(0)=10 => u'(0)=10-u(0) [0,2] >x -> u(x) 6/19 polic u to posuk aum funkcja  $\frac{-d(E(x)du(x))}{dx(E(x))dx} = -\left(\frac{dE(x)}{dx}\right)du(x) + E(x)\frac{d^2u(x)}{dx^2} = -E(x)\frac{d^2(x)}{dx^2}$  $\int_{0}^{2} -E(x)u'' \cdot vd = \int_{0}^{2} 0 \cdot v dx \quad \forall v \in V$  $\int_{-}^{\infty} E(x) u'' v dx = 0$ [-E(x)u'v] 2 - S-E(x)·u'v'dx=0 -5u'(2)v(2)+3u'(0)v(0)+ SE(x)-u'v'dx=0 u'(0)=10-u(0) /u(2)=0=> v(2)=0 3.(10-u(0))·v(0)+SE(x)u'v dx=0 SECULIVI dx - 3ulo)vlo) = -30v(0) L(V) Bluiv)