Adam Masyclio , Temat: 
$$4.3 - Odustalcenie$$
 spansete.

$$-\frac{d}{dx} \left( E(x) \frac{du(x)}{dx^{2}} \right) = 0$$

$$\frac{du}{dx} \left( 0 \right) + u(0) = 10$$

$$\frac{du}{dx} \left( 0 \right) = 3$$

$$E(x) = \begin{cases} 2, x \in [0,1] \\ 6, x \in (1,2] \end{cases}$$

$$V \in V = \begin{cases} 4 : 4 \in H^{1}(x), A(2) = 0 \end{cases}$$

$$-\int_{0}^{2} E(x)u''v dx = \int_{0}^{2} 0 \cdot v dx$$

$$-E(x)u'v \Big|_{0}^{2} + \int_{0}^{2} E(x)u'v' dx = 0$$

$$-\left[ E(2)u'(2)v(2) - E(6)u'(0)v(0) \right] + \int_{0}^{2} E(x)u'v' dx = 0$$

$$-2u(0)v(0) + \int_{0}^{2} E(x)u'v' dx = -20v(0)$$

