4.3 OdkoxtaTcenie sperayste

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

$$E(x) = \begin{cases} 3 & \text{old } x \in \langle 0, 1 \rangle \\ 5 & \text{all } x \in \langle 1, 2 \rangle \end{cases}$$

$$-\frac{d^2u(x)}{dx^2} \cdot \sigma = 0$$

$$-\int_{0}^{\infty} \frac{dE(x)}{dx^{2}} \cdot \frac{d^{2}u(x)}{dx^{2}} \cdot \sigma dx = \int_{0}^{2} 0 dx$$

$$-\int_{0}^{\infty} \frac{d^{2}u(x)}{dx^{2}} \cdot v dx = 0$$

$$-\left[v \cdot E(x) \cdot \frac{du(x)}{dx}\right]^{2} + \left[v \cdot \frac{du(x)}{dx}\right]^{2} + \left$$

$$\frac{du(0)}{dx} + u(0) = 10 = 100$$

3 premion weight a n no leng strong
$$-v(0)E(0)u(0) + \int_0^2 v' Eu' dx = -v(0)E(0) \cdot l0$$