$$\frac{d}{dx} \left( E(x) \frac{d m(x)}{d x} \right) = 0 \quad E(x) = \begin{cases} 3, x \in (0, 1) \\ 5, x \in (1, 2) \end{cases}$$

$$m(2) = 0; \quad \frac{d m(0)}{d x} \quad \text{on} (0) = 10; \quad (0, 2) \ni x \ni m(x) \in \mathbb{R}$$

$$-E(x) \cdot \frac{d^2 m(x)}{d x^2} \cdot v = 0 \quad / \quad \int \int \frac{d m(0)}{d x} = 10 - m(0)$$

$$- \int \int E(x) \frac{d^2 m(x)}{d x} \quad v \, dx = 0$$

$$\frac{d}{dx} \left( E(x) \frac{d m(x)}{d x} \right) \quad v \, dx = 0$$

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