

**Zad. 5 (SS)**

$$f(x) = \begin{cases} 0 & x \leq \alpha, \\ \frac{1}{b-a} & \alpha < x < \beta \\ 0 & \beta \leq x \end{cases}$$

$$EX = \int_{-\infty}^{\infty} xf(x)dx = \int_{\alpha}^{\beta} xf(x)dx$$

$$\text{Var}X = EX^2 - EX^2$$

$$\text{Var}X = \int_{\alpha}^{\beta} x^2 f(x)dx - \left( \int_{\alpha}^{\beta} xf(x)dx \right)^2$$