X_1, X_2, X_3, X_4, X_5 Sol nieraeleine, wiec gestość towne idolaynum gestości brzegawych.

$$P(\chi_1 < \chi_2 > \chi_3 < \chi_4 > \chi_5)$$

Zonwarinny, rie jessi $X_5 = t$, to whetey $X_4 > X_5 = t$ rankes X_4 to (t, ∞) .

Podobnie $X_4 = 5 \land X_3 e X_4 \Rightarrow radenes X_3 to (-\infty, s)$.

$$\chi_3 = 2 \wedge \chi_1 \times \chi_3 = \times \chi_2 \in (2, \infty)$$

 $\times_2 = y \wedge \times_1 < \times_2 => \times_1 \in (-\infty, y).$

$$P(x_1 < x_2 > x_3 < x_4 > x_5) = \int_{-\infty}^{\infty} \int_{t-\infty}^{\infty} f(x) f(y) f(z) f(s) f(s) dx dy dx ds dt =$$

Catka z gastości to drystnybuanta

$$\begin{pmatrix}
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(x) \\
(x)$$

 $\left(\frac{F^2(y)}{2}\right)' = F(y) \cdot F'(y)$, ponieważ F'(y) = f(y) wiec f(y) to pochodna wewnętnena

$$\int_{-\infty}^{\infty} \int_{t}^{\infty} \int_{y=2}^{y+\infty} f(z) f(s) f(t) dr ds dt =$$

$$\int_{-\infty}^{\infty} \int_{+\infty}^{\infty} \int_{-\infty}^{1} \left(1 - F^{2}(z)\right) \mathcal{L}(z) \mathcal{L}(s) \mathcal{L}(t) \quad dr \, ds \, dt =$$

$$\frac{1}{2}(\bar{f}(2) - \frac{\bar{f}(2)}{3})' = \frac{7}{2}A(2)(7 - \bar{f}^2(2)) \quad \text{itd...}$$

$$\int_{2}^{\infty} \int_{2}^{\infty} \left(\overline{F(z)} - \frac{\overline{F(z)}}{3}\right) + f(s) + f(t)$$
 dis dt =
$$-\infty t$$

$$\int_{0}^{\infty} \frac{1}{2} \left[\frac{f^{2}(s)}{2} - \frac{f^{4}(s)}{12} \right]_{s=t}^{s\to\infty} f(t) dt =$$

$$\int_{2}^{\infty} \frac{1}{2} \left[\left(\frac{1}{2} - \frac{1}{12} \right) - \left(\frac{F^{2}(t)}{2} - \frac{F^{4}(t)}{12} \right) \right] + (t) dt =$$

$$\left[\frac{5F(t)}{24} - \frac{F^{3}(t)}{12} - \frac{F^{5}(t)}{120} \right]^{t \to \infty} = \frac{5}{24} - \frac{1}{72} + \frac{1}{720} - \frac{2}{15}$$

Me obnotnej gestosci vozteolu p= 75, mysi jest od niej niesaterine.