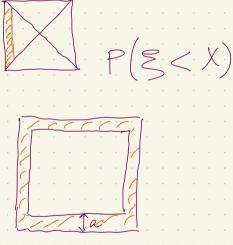
$$f(x) \ge 0, \quad \int_{-\infty}^{+\infty} f(x) dx = 1$$

$$f(x) = Cx^{3}. \quad I_{\{-1 \le x \le 2\}} \quad 0, \quad \text{otherwise}$$

$$f(x) = \frac{C}{x^{2}} \quad I_{0 < x < 1} \quad \int_{-\infty}^{\infty} \frac{C}{x^{2}} dx \quad \text{diverges}$$

$$f(x) = \frac{Cx^{2}}{x^{4} + 6} \quad \int_{-\infty}^{\infty} \frac{Cx^{2}}{x^{4} + 6} dx$$

1 X2 2>1



$$\int_{\mathbb{R}} x + x p(\lambda) \qquad \frac{\lambda > 0}{1} \qquad \frac{\lambda \sim 0}{1} \qquad \frac{\lambda \sim$$

 $\leq \sim Exp(2)$ 

 $\int_{S} (x) = \lambda e^{-x}$ 

$$\int_{-2\pi}^{2\pi} \frac{1}{t^2} e^{-t/2} dt = -\frac{1}{\sqrt{2\pi}} t e^{-t/2} \Big|_{t=-\infty}^{t=-\infty} + \frac{1}{\sqrt{2\pi}} e^{-t/2} dt = t e^{-t/2} dt^2 = -t de^{-t/2} + \int_{-2\pi}^{2\pi} e^{-t/2} dt = 0 + 1 = 1$$

$$Var \xi = E \xi^2 - (E \xi)^2 = (o^2 + \mu^2) - \mu^2 = o^2 + \mu^2 + \frac{1}{\sqrt{2\pi}} e^{-t/2} dt = 0$$

$$V(M, o^2) = \int_{-2\pi}^{2\pi} e^{-t/2} dt = \int_{-2\pi$$

$$= P(|S-M|<30) = P(-30$$

 $\approx 2.0,49.86 = 0,9972$ 

≈ 2.0,499968

P((5-E5/<3/Vars)=, 5~N(M; 5°)

$$\eta = a + b, \quad a \neq 0 \quad \text{En} = a + b$$

$$f_{\eta}(x) = -\frac{1}{a} f_{\xi}(\frac{x-6}{a}) = \int_{\xi} (x) \int_{\xi} (x) dx = \int_{\xi} (x) \int_{\xi} (x)$$

Var E. Var p

$$E \stackrel{?}{\Rightarrow}^2 + 2C \cdot E(\stackrel{?}{\Rightarrow} 1) + C^2 \cdot E \stackrel{?}{\Rightarrow}^2 > 0 \quad \forall C$$
a quadratic inequality with respect to C

$$\stackrel{?}{\Rightarrow} = (E(\stackrel{?}{\Rightarrow} 1))^2 - E \stackrel{?}{\Rightarrow}^2 \cdot E \stackrel{?}{\Rightarrow}^2 < 0 \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{She equality}$$

$$|E(\stackrel{?}{\Rightarrow} 1)| \stackrel{?}{\Rightarrow} \sqrt{E \stackrel{?}{\Rightarrow}^2} \cdot E \stackrel{?}{\Rightarrow}^2 = C \quad \text{Sh$$

 $E(S+ch)^2 > 0$