6) 連続型的布と標本師

0正根历布

 $f(x) = \frac{1}{12\pi \sigma} \exp\left(-\frac{(x-\mu)^2}{2\sigma^2}\right) \qquad N(\mu_1\sigma^2)$ 

: N(0.1)

o 指翻流 f(x)= ne = Exp(n) 無記憶性

9 N'-A 177 + (x)= 1 1 ((-x)b-1

 $f(x) = \frac{1}{(2\pi)^{\frac{p}{2}} \cdot (det \Gamma)^{\frac{1}{2}}} exp \left(-\frac{1}{2} (x-\mu)^{\frac{p}{2}} \int_{-1}^{1} (x-\mu)^{\frac{p}{2}} \right)$ 

$$\psi(z) = \sqrt{2\pi} e^{-\frac{z^2}{2}}$$

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$$X \sim N(N.0,) \text{ or} \in [x] = n \quad n[x] = 0,$$

$$M(t) = E[e^{tx}] = exp(Mt + \frac{1}{2}e^{t^2})$$

$$P(X \leq X) = P(Z \leq Z) = \Phi\left(\frac{X - M}{6}\right)$$

面現性なり

毛水品質的	$M(t) = E[e^{tx}]$	$M'(0) = E[x]$ $M''(0) = E[x^2]$

四九十二集份布 Zi~ N(0.1)  $Y = Z_1^2 + Z_2^2 + \cdots + Z_n^2$ ~ N(0.1) (N-1)82 = 1=1 (Xi-X) Xn  $\sim \chi^2 \left( n - 1 \right)$  $Z \sim \mathcal{V}(0.1)$ oth布 < 自由度 na 七分布.  $\chi \sim \chi^2(n)$ 的新的精动 FER PORPO

[1] 
$$f(t) = P(T < t) = [-s(t)]$$

$$= [-exp[-nt)]$$

$$= [-t] = \int_{0}^{\infty} t \cdot n \cdot e^{-nt} dt = [t \cdot (-e^{-nt})]_{0}^{\infty} + \int_{0}^{\infty} e^{-nt} dt$$

$$= [-\frac{1}{n}e^{-nt}]_{0}^{\infty} = \frac{1}{n}$$

$$= [-\frac{1}{n}e^{-nt}]_{0}^{$$