

grum
$$7.5$$
 $\alpha = 5$ $a = 6$ a

$$\sqrt{3} \qquad \sqrt{\frac{1}{1-x^{11}}} = 77$$

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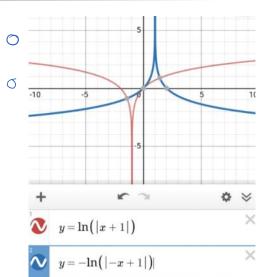
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$$\int_{0}^{1} \int_{0}^{1} (\sinh x + \cosh x + 1) dx = e$$

$$\sqrt{2} p(x) \propto \frac{1}{|x|+1}; \quad \int p(x) dx = \begin{cases} \ln(|x+1|), & x \ge 0 \\ -\ln(|-x+1|), & x < 0 \end{cases}$$

$$\int_{-\infty}^{\infty} \frac{1}{|x|+1} dx = \infty$$
Therefore $\Rightarrow p(x) \neq 0$



$$N1$$
 $\times \sim Exp(x) \propto \begin{cases} e^{-\lambda x}, x \ge 0 \\ 0, x < 0 \end{cases}$

1) Hymrupoboru. Mr. 16 3) Efin 2) COF 4) Var X

1) Hom.:
$$\int_{0}^{\infty} dx + \int_{0}^{\infty} e^{-2x} dx = -\frac{e^{-2x}}{2} \Big|_{0}^{\infty} = 0 - (-\frac{e^{-2x}}{2}) = \frac{1}{2}$$

$$= 2 \quad \text{Heym. Mu} = (\frac{1}{2})^{-1} = 1$$

X=0,5

$$2|CDF:2se^{-2s}ds=1/-\frac{e^{-2s}}{2}|_{0}^{x}=-e^{-2x}+1=\frac{1-e^{-2x}}{2}$$

3)
$$EX: 2 \int_{0}^{\infty} e^{-\lambda x} x dx = 2 \cdot \frac{1}{2^{2}} = \frac{1}{2}$$

4) larx:
$$Ex^2 - (Ex)^2 = Ex^2 - \frac{1}{2^2} = \frac{2}{2^2} - \frac{1}{2^2} = \frac{1}{2^2}$$

$$Ex^2 = 2 \int_{\partial}^{\partial} e^{-\lambda x} x^2 dx = 2 \frac{2}{2^3} = \frac{2}{2^3}$$