Sfuction 5% 9% Discrete Colf 791649

It is not possible to define a probability for eachy

구간의 각물

$$\frac{\lim_{\Delta x \to 0} P(x \in X + \Delta x)}{\delta x} = \frac{f_{x}(x + \Delta x) - f_{x}(x)}{\delta x} = \frac{g_{x}(x + \Delta x)}{\delta x}$$

$$\frac{f_{x}(x)}{\int_{S} prob density function(Pdf)}$$

다-41길이 Cb 라를 = 말도

$$f_{X}(x) = f_{X}(x)$$

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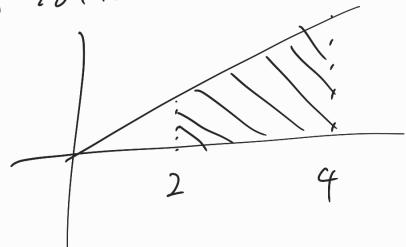
$$= \int_{-\infty}^{5} f(x) dx - \int_{-\infty}^{a} f_{x}(x) dx$$

=
$$\int_{\alpha}^{6} f_{x}(\chi) d\chi$$

$$P(X \leq A) = P(X \leq A) v |_{Y} P(X = A) = 0$$

$$= \int_{-\infty}^{\alpha} f\chi(x) dx = f\chi(\alpha)$$

UN'Form d'istribution



Fa

Expectation (7/5/2)
$$\overline{X} = \frac{1}{N} + W_{2} \times 2 \dots + W_{N} \times N_{N}$$

$$\overline{X} = \frac{W(X) + W_{2} \times 2}{N} + W_{N} \times N_{N}$$

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$$\overline{X} =$$

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$$P_{k}(k) = \frac{\lambda^{k}}{k!} - e^{-\lambda}, \quad k = 0, |_{1} > \dots$$

$$F(k) = \frac{\lambda^{k}}{k!} - e^{-\lambda}, \quad k = 0, |_{1} > \dots$$

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$$= \frac{\lambda^$$

$$\frac{k!}{k!} = \frac{k!}{k!} = \frac{k$$

lifetime 7/7/19 (19537) = 1/2 2/201 (1/3

$$E[X] = \int_{-\infty}^{\infty} x f(x) dx = \int_{-\infty}^{\infty} x \cdot \lambda e^{-\lambda x} dx$$

$$= \frac{1}{2}$$

$$E[X^n] = \sum_{i} x_i^n(p(x_i)) = \int_{-\infty}^{\infty} x^n f_x(x) dx$$

Central Moneuts (54134?)

$$E[(x-\mu)^n] = \int_{-\infty}^{\infty} (x_i - \mu)^n p(x_i)$$

$$\int_{-\infty}^{\infty} (x_i - \mu)^n f_x(x) dx$$

$$= [x-M] = S(x-M) f_x(x) dx = \int x f_x(x) dx - M f_x(x) dx$$

$$\cdot N = 1$$
 (voriance) 466
 $E[x-ex^2] = 6x^2$: (voriance)

Proposition

$$\begin{array}{ll}
f_{1}(X), & g_{1}(X) & \text{Etag}_{1}(X) + bg_{2}(X) \\
&= & \int a \cdot g_{1}(X) \cdot bg_{2}(X) \cdot f_{X}(X) dX \\
&= & \alpha \int g_{1}(X) f_{X}(X) dX + b \int g_{1}(X) f_{X}(X) dX \\
&= & \alpha \in (g_{1}(X) + b \in [g_{2}(X))
\end{array}$$

Linear det!

Linear det!

Linear det!

(ax) =
$$0$$
. $f(x)$

2) superposition

$$f(x_1+x_2) = f(x_1) + f(x_1)$$

$$f(0x_1+bx_2) = af(x_1) + bf(x_2)$$

=) el)

1) series \(\frac{x_1}{2} \)

2) operations

\(\frac{x_1}{2} \)

3) \(\frac{x_1}{2} \)

3) \(\frac{x_1}{2} \)

\(\frac{x_2}{2} \)

1 \(\frac{x_2}{2} \)

3) \(\frac{x_1}{2} \)

2 \(\frac{x_2}{2} \)

3) \(\frac{x_1}{2} \)

3

$$6x = E[(((-M)^{2}) = C(x^{2} - 2xM + M^{2})]$$

$$= E(x^{2}) - 2ME(x) + M^{2}$$

$$= E(x^{2}) - 2M^{2} + M^{2} = E(x^{2}) - M^{2}$$