

mean 
$$\int d^3s crefe$$

(random) =  $\int x^3 P^2$ 

(random)

· E(A2) >> 2102Po + 212P, + 42P2 + 111+ 212PA in case of throwing a hice, Var(x) => (12 (1) +(2)2(1) +111+ (6)2(1) (of) standard deviation & RMS value. -> Variance o° Var(x) cann't Ove Idiscrete random variable (glossary): \* M = F[X] = 5 x1°P° \*variance = E[x2]-[E(x)]2 \*Standard devo = Tvariance(x) \* 5 EP[X=x0]=1.

Configuous random variable:

\* 
$$\int_{-\infty}^{\infty} f(x) dx = 1$$
 or  $\int_{0}^{16} f(x) dx = 1$ 

- $\infty$ 

a  $\leq \eta = 6$ 

\*  $E[x] = \int_{0}^{1} f(x) dx$ 

\* variance =  $E[x^2] - [E[x]]^2$ 

\* standard \* variance variance cannot be variance in egative.

\*  $\int_{0}^{\infty} f(x) dx - \int_{0}^{16} dx f(x) dx = 1$ 

\* standard \* variance variance cannot be variance in egative.

\*  $\int_{0}^{\infty} f(x) dx - \int_{0}^{16} dx f(x) dx = 1$ 

\*  $\int_{0}^{16} f(x) dx - \int_{0}^{16} dx f(x) dx = 1$ 

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\*  $\int_$ 



