pyringus na monenture (pM)

Sepanniques fleur X e crosen. Ano Ee^{tX} cong. so $t \in (-\ell, \ell)$ so neuroe $\ell > 0$, no $M_X(t) = Ee^{tX}$ so $t \in (-\ell, \ell)$ ce napura ϕM

$$\bigoplus_{i=1}^{\infty} e^{tX} = \underbrace{\underbrace{e^{tX_i} P(X=x_i)}}_{\text{et}} \qquad \underbrace{x_i = \hat{i}}_{\text{i}} \\
F(X=\hat{i}) = \underbrace{\frac{1}{\hat{i}^2}}_{\text{i}}$$

$$\underbrace{F(X=\hat{i}) = \frac{1}{\hat{i}^2}}_{\text{et}}$$

 $X \sim U(0, L)$ $M_X(t) = Ee^{tX} = \int_0^1 e^{tX} dx = \frac{e^t - L}{t} = go f e get W t \in \mathbb{R}$

Depunique X e on ben . Torabo a) #X'' a nagaria moment of peg $x \ge 1$ #X/X'' a nagaria adomoron moment of peg x #X/X-#X/X'' a nagaria yenopaney moment of peg x. #X=#(X-#X)'' #X-#X/X'' a nagaria adiomoron yenopaney #X=#(X-#X)''

I) $\#/X-\#X/^{N}$ le napara abionnoisen yenfanen looieusbo na #/X. We genycuame, ee #/X/4/ e goopse gepunupan #/X/4/ e #/X/4/

a) $M_X(0) = \text{He}^{0X} = \text{HI} = I$ d) $\frac{d}{dk} M_X(4) = \text{H}_X \text{ ga} + \text{KZI}$ t=0

b) $M_X(H) = Ee^{tX} = E \underset{k=0}{\overset{\infty}{\leq}} \frac{t}{k!} \chi^k = \underset{k=0}{\overset{\infty}{\leq}} \frac{t}{k!} E_X^k$ a) Ano $M_{X_U}(H) = W_{X_U}(H) = W_{X_U}(H)$