ECETX) Eilietxi $\int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} \int_{-$ Buronli Buronli pytt)-9 + PC (= (=X) $M = G(X) = \frac{d}{dt} M_X(t) = 0$ -0+pet=pet=pet=p $V = \left[\begin{bmatrix} X^2 \end{bmatrix} - \left[\begin{bmatrix} X \end{bmatrix}^2 \right]$ $\left[\left(\begin{array}{c} 1 \\ 1 \end{array} \right) = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left[\begin{array}{c} 1 \\ 1 \end{array} \right] = \frac{d}{dt} \left$ P-P= P(1-P)= P9 Biron de (M) PK 9M-K $m_X(t) = \sum_{i=1}^{M} P_i e^{tX_i}$ One Bornsult $m_X(t) = \sum_{i=1}^{n} P_i e^{tX_i}$ $m_X(t) = \sum_{i=1}^{n} P_i e^{tX_i}$ mx(t) (9+Pet) M ECXJ < b mx(t) (+00 de mx (t) = M (9+) et to $= M(p+q)^{M-1}p = Mp \qquad p+q=1$ de m (9+pet) - pet = = M(n-1) PPP+ MQ+PF+ PP= $= M(M-1) P^2 + MP = M^2 P^2 - MP^2 + MP =$ $-M(MP^2-P^2+P)$ $\left[\left(\begin{array}{c} \chi^2 \end{array} \right) - M \left(M \rho^2 - \rho^2 + \rho \right) \right] \left[\left(\begin{array}{c} \chi \end{array} \right) \right]^2 = M^2 \rho^2$ $M(MP^2-P^2+P)-M^2P^2=$ = m2p2 - mp2 + mp - m2p2 = mp - mp2 = = M((-p)) = M((4-p)p) = Mqpgeratics part $M_{\chi}(t) = \sum_{k=1}^{\infty} \rho(k-1) c t \cdot k$ P. Shall ette Spal 9 K-1 to the $= \int_{k-1}^{\infty} e^{t} \left\{ \sum_{k=1}^{\infty} \frac{1}{2^{k-1}} e^{t} \left(e^{-t} - e^{-t} + e^{-t} - e^{-t} + e^{-t}$ PC = PC (-QC) · [= [X] = [xx (+ | t=0 E (X2) = prx (+) (t=0 $\frac{e^{t}}{1-qe^{t}} = \frac{e^{t}(1-qe^{t}) - e^{t}(-qe^{t})}{(1-qe^{t})^{2}} = \frac{e^{t}(1-qe^{t}) - e^{t}(1-qe^{t})}{(1-qe^{t})^{2}}$ - P & (1-9xt) + P & = $\left(1-97\right)^{2}$ $=\frac{P(1-q)+Pq}{(1-q)^2}=\frac{P-Qq+Qq}{PZ}$ - 1/P. $M_{X}(t) = \begin{bmatrix} e^{tX} \end{bmatrix} = \begin{bmatrix} e^{tR} & p^{R} & e^{-P} \\ p^{R} & e^{-P} \end{bmatrix}$ $= e^{-P} \begin{bmatrix} e^{t} & p^{R} & e^{-P} \\ p^{R} & e^{-P} \end{bmatrix}$ $= e^{-P} \begin{bmatrix} e^{t} & p^{R} & e^{-P} \\ p^{R} & e^{-P} & e^{-P} \end{bmatrix}$ $E[X] = \mu(e^{t} - 1)$ + t = 0 $E[X^2] = Ate (e^{t-1})$ $E[X^2] = Ate (e^{t-1})$ = p(et) pe pe + pret = $NP+N=N^2+P=P(1+P)$ E[X2] - [X] = N((+y) - 1/2 = = NX + V - NX = N Chyrartyle (x)= so x <0 Fxt= 1-e-xt t2p Fx (+) = P (X < +) Pro) 1° micono entro + P(X>+)=1-P(X=+)=[-Fx(+) SP(X < t) = 1-P(X>t)=[-P(M+=0) = 1- e->t En beira i oblige /x(X) We had $\frac{1}{2}(x) = \int_{0}^{0} x \leq 0$ $\frac{1}{2}(x) = \int_{0}^{0} x \leq 0$ $\frac{1}{2}(x) = \int_{0}^{0} x \leq 0$ $\frac{1}{2}(x) = \int_{0}^{0} x \leq 0$ $F_{\times}(\times) = P(\times \in \times) = P(\times \times) =$ $= P(X \leq X^{\alpha}) = F(X^{\alpha}) = P(X^{\alpha}) = P(X$ Philippo i other Starbanizzue la Nongle NEO, G=1 $Z = \frac{X - N}{6}$ X = ZS + N $Ax = AZ \cdot 6$ Togismo la deniti e otterisso la