AUM- ERM Mides UX, ex aa X : E(X) = oe VM(X) = 1

M,= 4X,+6Xa M= X, + Xx

 $E(M_1) = \frac{4}{12} E(X_1) + 6 E(X_2) = 0$ $E(M_2) = \frac{4}{12} E(X_1) + 1 E(X_2) = 0$

VM(M): ERM (M1) = 16 VARIXI + 36 VARIX)

Var(M, 1: EAM(M, 1: 1 var(X)) + 1 var(X):

ERM(M,1) ERM(Ma).

$$X_1, \dots, X_n$$
 as X_n $E(X) = Y_n = 0$

va(1)=1=1

$$M = \frac{1}{x} \times \frac{1}{x} + \frac{1}{x} \times \frac{1}{x}$$

$$E(M_1)$$
: $\frac{2}{2}E(X_1)^2$

 $\frac{1}{n-2} = \frac{0}{n-2} = 0.$

$$E(M) = 0$$

$$Van(M_1)=1 \leq van(M_1) = \frac{n}{n-a_1^2} = \frac{10}{8^a} = \frac{10}{64}$$

$$= \frac{1}{4} + \frac{1}{4} \quad (n-1) = \frac{1}{4} + \frac{1}{4} = \frac{1}{4} + \frac{1}$$

Considere X., . , Xn na X ~ N(m, or). And estimador para l'Epellatel un termos de E2 m? be on så, orde be = 1 & [xi-xi^ec 5=1 & (X: -X12)

followed que (n-1) 5 \sim 2 \sim 2 palonto,

 $E(s^{\alpha}) = 0^{\alpha} e \quad Van(s^{\alpha}) = \frac{20^{4}}{h-1}$ estimada não victodo de 0^{α} .

 $\int_{1}^{2} = \frac{n-1}{n} \int_{1}^{\infty} e^{-a\pi i m}$

 $E(\hat{p}) = \frac{n-1}{n} e \quad \text{on} \quad (\hat{p}_{\alpha}) = \left(\frac{n-1}{n}\right)^{\frac{1}{\alpha}} \frac{\alpha e^{4}}{n-1} = \frac{1}{n} \frac{1}{n} \frac{1}{n} e$ which we have a property of e^{2} and e^{2}

264 (n-1)

Edm (5°) = Vm (5) = 204

$$(n-1) \leq^{\alpha} \sim \chi^{\alpha}_{n-1}, \text{ antio}$$

$$\in \left(\frac{(n-1)}{\sqrt{2}} \right)^{2} = (n-1) \Rightarrow$$

$$(n-1) \in \left(\frac{\sqrt{2}}{\sqrt{2}} \right)^{2} = (n-1) \Rightarrow$$

$$\in \left(\frac{\sqrt{2}}{\sqrt{2}} \right)^{2} = \left(\frac{2}{\sqrt{2}} \right)^{2} =$$

Van (5")=210×104 = 214/

$$= \left(\frac{x-1-x}{n}\right)^{n} = -\frac{1}{n} d^{n}$$

$$E2n(\hat{j}_{2}) = 26^{\frac{1}{2}} \left(\frac{1}{n}\right)^{\frac{2}{3}} = \frac{2}{n}$$

$$\frac{26^4(n-1)}{n^2} + \frac{1}{n^2} = \frac{6^4}{n^2} \left[\frac{2(n-1)}{n^2} + 1 \right] =$$

$$\int_{n^2}^{4} \left(2n-1\right)^4$$

Nok que re, excesa deviciado, expresente um ERM menos.

que o ERM do enti-redor 5°.

and the same of th