$$CoV(x,y|z) = E[(x-E(x|z))(X-E(y|z))|z]$$

$$= E[xy-XE(y|z)-yE(x|z)+E(x|z)E(y|z)|z]$$

$$= E[xy|z]-E[xE(y|z)|z]$$

$$= E[xy|z]-E[x|z]E[y|z]$$

$$= E[xy|z]-E[x|z]E[y|z]$$

$$= E[xy|z]-E[x|z]E[y|z]$$

$$= E[xy|z]-E[x|z]E[y|z]$$

$$= E[xy|z]-E[xy|z]$$

= E-(COV(X, YIZ) + GV(F(XIZ), E(YIZ))

1: 1: None of.

$$V_{ar}(E(X|Y)) = E(E[X|Y))^{r} - (E[X|Y))^{r}$$

$$= E((E(X|Y))^{r}) - (E(X))^{r}$$

$$= E((E(X|Y))^{r}) - (E(X))^{r}$$

$$= E((E(X|Y))^{r}) - (E(X))^{r}$$

$$V_{AP}(X|Y) = E[(X - E[X|Y])^{1}|Y] = E[X^{1} - YXE[X|Y] + (E[X|Y])^{1}|Y]$$

$$= E[X^{1}|Y] - Y(E[X|Y])^{1} + (E[X|Y])^{1}$$

$$= E[X^{1}|Y] - (E(X|Y))^{1}$$

$$Y = \sum_{n=1}^{\infty} X_{1}^{2} , \quad F[X_{1}] = 1^{2} , \quad Var(X_{1}) = 1$$

$$Z = \frac{\sum_{n=1}^{\infty} X_{1}^{2} - mM}{\sqrt{n} \epsilon^{2}}$$

$$Z \sim norm(o_{1}1)$$

$$= p(4.7 \times |1.1) = p($$

 $E(x) = \sum_{x=1}^{\infty} x p(x=x) = \sum_{x=1}^{\infty} x p(x=x)$ Kyo (il)), 1)(X=K) Kr > EIXI > P(X=K) K P(X=K) (YETX) EIX7= \nfixidn \n \n fonda > SK faxidu = 1 > f(K) | ndn = f(K) K EIXI FIXI ~ FIXI -> f(x) of Y E[x]

$$X; \sim cmi(-1/\gamma)'(r)$$

$$E[X;] = 0 \quad Var(X;) = \frac{1}{17}$$

$$Z_{n} = \frac{\sum_{i=1}^{n} X_{i} - nM}{\sqrt{ne^{r}}} \longrightarrow Z = \frac{X - (cl. x_{o})}{\sqrt{\frac{\Delta_{o}}{1r}}}$$

$$Z_{n} \sim nerm(o,l)$$

$$p(|x|||r|| = p)(|z|||y|||r|||q|| = |x||p|(-|x||q||)$$

$$= 0.112$$

$$|z||z|| = 0.112$$

$$|z||z||z|| = 0.112$$

- 1, pole correcció l'fode son 1, 1 da a Zn = Exi-hu E(X;)= M Var (Xi)= 6" = 15 Zn ~ norm (o,1) P(-1/r < Ex; - Mn (1/r)) = P(-1/r) < Ex; - M/r < /r $= \rho \left(\frac{-\sqrt{n}}{\varepsilon} / 2_n / \frac{\sqrt{n}}{\varepsilon} \right) = \rho \left(\frac{-\sqrt{n}}{\sqrt{6}} \right) - \rho \left(\frac{-\sqrt{n}}{\sqrt{6}} \right) = \rho \left(\frac{\sqrt{n}}{\sqrt{6}} \right) = \rho \left(\frac{\sqrt{n}}{\sqrt{$ > P(-1/2 (\(\frac{\xi}{n}\) - M<//r> دردد م ستراکی کرات الی هتری سرای کی می تخس دهاتی سر $P(-1/(\frac{\Sigma X_i}{n}-M<1/r)) = 95/1...$ $\rightarrow \gamma \phi(\frac{\sqrt{n}}{\kappa}) - 1 = 10/1.$ \$ (\sqrt{\n/2}) \ \frac{1907}{\text{X...}} \frac{\text{Y1}}{\text{2.}} JN/E / 194 -> 11/5

با درافع ۱۲ ازماسی ، با انجال نه مطسیم که اصلی از سالین انتاسی ما از مالین واقعی کور برای .

p(x)a) = p(x.b)a.b) (p((x.b) /), (a.b) /) 9 ilucinis p(x)a) & E(x) segre x roles of P(x)a) & P. ((x+b) 1) (a+b) 1) (=[(x+b)1) $\int (x) \alpha \int \left(\frac{6^{r} + \frac{6^{r}}{\alpha^{r}}}{(\frac{\alpha^{r} + 6^{r}}{\alpha^{r}})^{r}} \right) = \frac{\alpha^{r} + 6^{r}}{(\alpha^{r} + 6^{r})^{r}}$ P(X7,a) = 6 t = Var(X) ar, 6 t = Var(X)

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