$$y(t) = f[\omega(y(t))] + \varepsilon(t)$$

$$conv(x) = 0$$

INFO WAGEN

ALEATONIENDO TIPOPE

VAMABLE

ALEA YORIS

CAMSIS

EJTO CA 577 CO Pro coso SOMETAS rejulmas) CONTINUS Ush sanay C/MITT: $\gamma(\omega) \rightarrow \sqrt{4}$ אול פעושת בולל

VAMBER]

Process MARVOV
$$\rightarrow AR(1)$$

TIETROS DISCROPO \rightarrow CADENIA SE

TRANCOV

$$S \quad I \quad R$$

$$S \quad O,ZO \quad O,IV \quad O,IV \rightarrow \Sigma = 1$$

$$R$$

$$TC_{t} = \left\{ \begin{array}{l} J(t-j) \\ J(t-j) \\ \end{array} \right\}$$

$$TC_{t} = \left\{ \begin{array}{l} TC_{t-1} \\ \end{array} \right\} \left\{ \begin{array}{l} TC_{t-2} \\ \end{array} \right\}$$

$$TC_{t-1} = \left\{ \begin{array}{l} TC_{t-1} \\ \end{array} \right\} \left\{ \begin{array}{l} TC_{t-2} \\ \end{array} \right\} \left\{ \begin{array}{l} TC_{t-2} \\ \end{array} \right\} \left\{ \begin{array}{l} TC_{t-1} \\ \end{array} \right\} \left\{ \begin{array}{l} TC_{$$

AUTONNE GRESIUI'DAD

METWONA

AUTIO HISIWA ADITIVA $\gamma(t) = C(t) + T(t) + S(t) + \varepsilon(t)$ EI MUDMIND SOMBONDE Cich

TW UNITUCOTUA

 $\gamma(t) = C(t) * T(t) * S(t) * \varepsilon (t)$

-> SIN METORIS AM(s) Inochendencia MUDNALIDAD - COMPONENTE EJMUCM Senit EJTA CIONANIEDAS

$$X \sim N(\mu, \sigma)$$

$$\frac{1}{2}$$

$$E[X] = \mu$$

$$E[X^{k}] \rightarrow Monomo$$

$$Aasoluro$$

$$Van[X] = \sigma^{k}$$

$$k=1 \rightarrow E[X^{2}]$$

$$N=2 \rightarrow E[X^{2}]$$

Van[X] = E[X2] -(E2)

Var(x) =
$$E((x-E(x))^2)$$

TOTE MO CENTRIDO
DE OLDEN 2

$$\Delta S(x) \longrightarrow = mc_3$$

 $K(x) = \frac{1}{5}$

EJMUDASE DE SEGUNDO ONDEN

PANADOTA DE SAN PETENSBUNG E[X] = 00

(i)
$$m_1(Y_t) = m_1(Y) = m(Y)$$

(ii) $E(Y_t^2) < \infty$
(ii) $\gamma(Y_{t-j}; Y_t) = \gamma_j(Y) = (\gamma_{-j}(Y))(j = 0, \pm 1, \pm 2, ...)$
Autofordinate $\gamma(Y_t) = \gamma_j(Y_t) = (\gamma_{-j}(Y_t))(j = 0, \pm 1, \pm 2, ...)$

FUNWADE AUTOCOVANANZAS $\gamma_{j}(Y) = E[(y_{t} - m(Y))(y_{t-j} - m(Y))] \quad (j = 0, 1, 2, ...)$

COV(X,Y) = E[XY] - E[X].E[Y]

In XIX (Inderendients) E[X]=E[X]E[X]

MATERIO CENTRAD DE ONDEN MINTO

 $Cov(x,\lambda) = E[(x-e(x))(x-e(\lambda))]$

$$\int (x,y) = \frac{GV(x,y)}{\sigma_X.\sigma_Y}$$

$$\gamma_0(Y) = E[(y_t - m(Y))(y_t - m(Y))] = E[(y_t - m(Y))^2] = \sigma_Y^2$$

$$VAJJOCON ANDNED DE$$

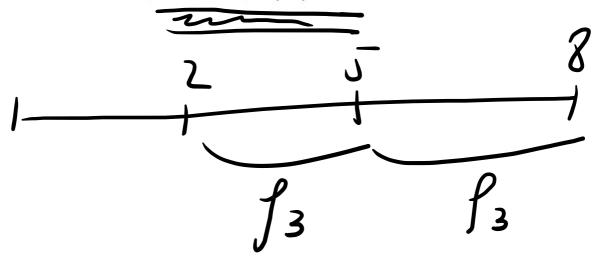
$$E[(X - E(X))^2] = \sigma_Y^2$$

$$VAJJOCON CER DE$$

$$\rho_j(Y) = \frac{\gamma_j(Y)}{\gamma_0(Y)} \qquad (j = 0, 1, 2, ...)$$

Donde se cumple que $|\rho_j(Y)| \leq 1$

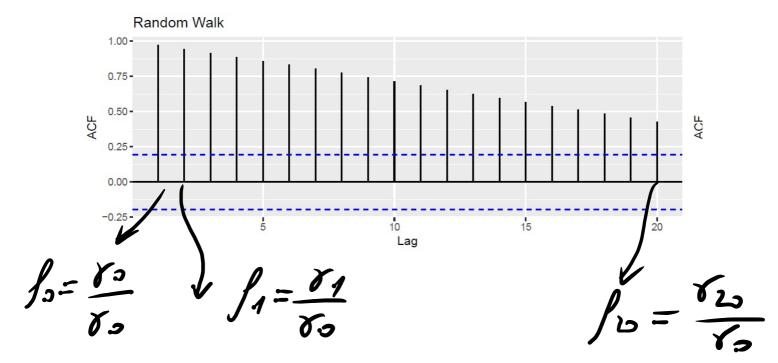
Se verifica que si $j = 0 \Rightarrow \rho_0(Y) = 1$



conners enotes -) GNA FLA DE LA FAC

> $|f_{J}(y)| \le 1$ $1 \le f_{J}(y) \le 1$

 $f_0(7) = \frac{\gamma_0(7)}{\gamma_0(4)} = 1$



SANIMA(1,4,8)
$$\hat{\gamma}_{e} = \hat{\gamma}_{e} - \hat{\gamma}_{e}$$

$$\hat{\gamma}_{e} = \hat{\gamma}_{e} + \hat{\gamma}_{e} + \hat{\gamma}_{e}$$

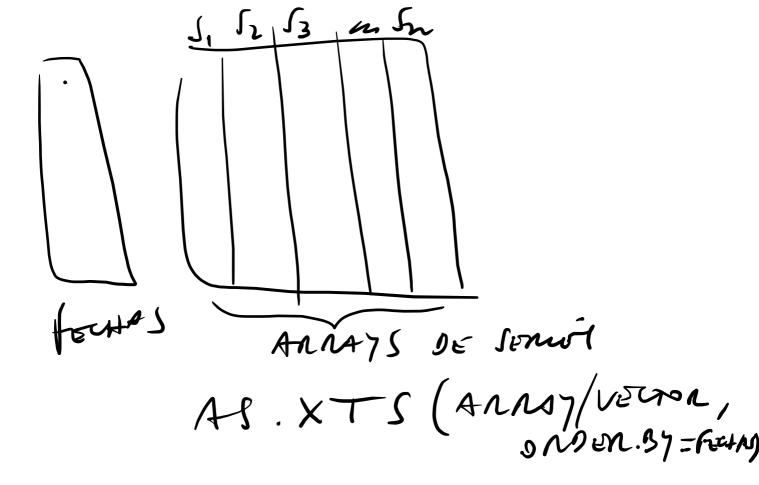
$$y_{t} = y_{t+1} + \varepsilon_{t} \qquad \text{Nowash}$$

$$y_{t} - y_{t+1} = \varepsilon_{t}$$

$$y_{t} - y_{t} - \varepsilon_{t}$$

$$y_{t}$$

MCLAND



$$y_{t} - y_{t-12} = \sqrt{y_{t}}$$

$$\sqrt{y_{t}} = y_{t} - y_{t-1}$$

$$\sqrt{y_{t}} = y_{t} - y_{t-1}$$

DELM A YE = YETI - YE

MASON

 $\frac{433}{413} - 1 = 25$