$$y_{t} = 5 + U_{t} + 2U_{t-1}$$
 $U_{t} - WN$
 $Vov(U_{t}) = 4$

$$PACF(z) = \lambda_{2}$$

$$y = \lambda_{1} y_{t-1} + \lambda_{2} y_{t-2} + \lambda_{1}$$

$$(CV(y_{t}, y_{t-k}) y_{t-1}, \dots, y_{t-k+1})$$

$$(CV(y_{t}, y_{t-1}) = 0$$

$$(CV(y_{t}, y_{t-1}) = 0$$

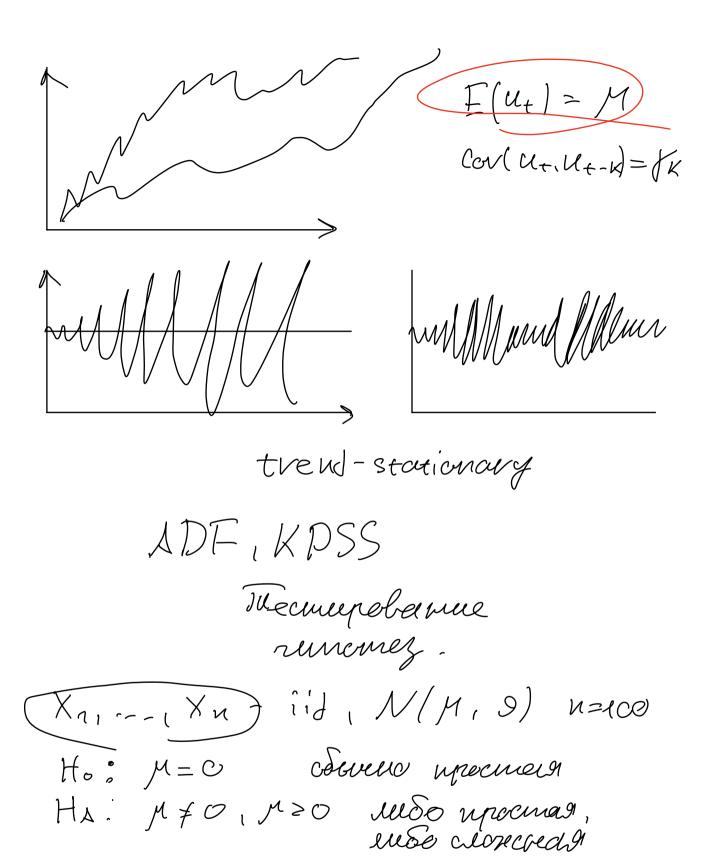
$$\left(COV(V_{t}, y_{t-2}) = O \right)$$

 $Y_{11}, ..., X_{10} - iid , S = Z X_{1}$ $PCorv(X_{11} X_{2}; S) = ? ? ?$

ARIMA SARIMAX,+ GARCH

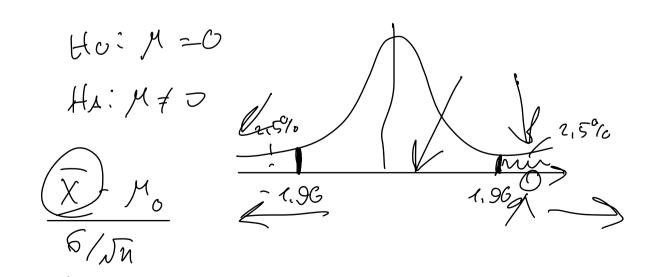
Ean pag mayeovapeuni (covaviancestationary) me ere vericue annipercumpeleuns ARMS- vicegenso

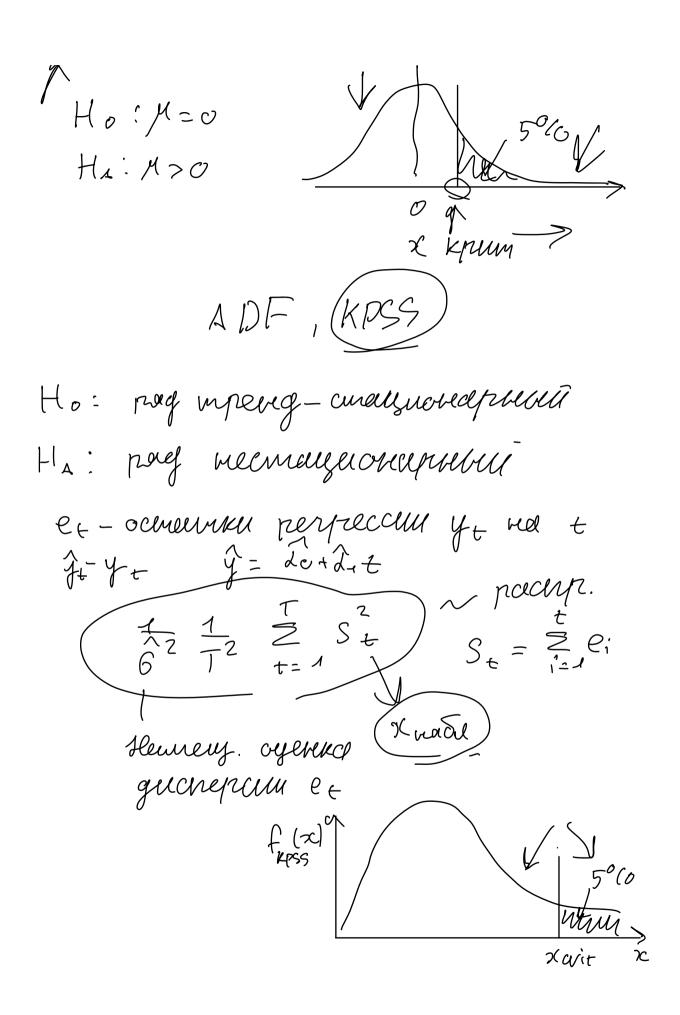
Kax mechapelame Cinceptechelpheene.



Tipu bequest Ho;
$$\frac{X - M}{6/\sqrt{N}} = \frac{F}{Mo_1 d}$$

$$\frac{X - M_0}{6/\sqrt{N}} = \frac{X - 0}{6/\sqrt{N}} = \frac{G_1G1}{3/10}$$
Ho we omb





ARMA (P,q)

AR(P) ACF sken. y Sørberem
PACF espulseremen na eare
P

MALG) ACF of rolleumes we vare of PACF such yolehour

ARMA (P.q) oбе жи youbaron

SARIMA (P1+19) (PD1,Q)

> yt= dayt-12 + dzyt-zy P=2

 $y_1 = J_1 E_{t-12} + J_2 E_{t-24}$ Q = Z

Dres oupegenerma P. Q Depan consugarantere appellent à, vo aucupier ne varecopole x-à sar. d: Y+-Y+-1 D: yt-y+-(1)-verneg cojoullectule Eau cezonnedemb culbrag (uz STL), ue neuco npeglerrumentorio l'alle D=1, Imo viencem nomero yopelano obsiences reconelles à redevil cezallella verleschell.

(1) (2) (3) D, J, P, 9, P, 9 J >> 0 (4)

WWW _____