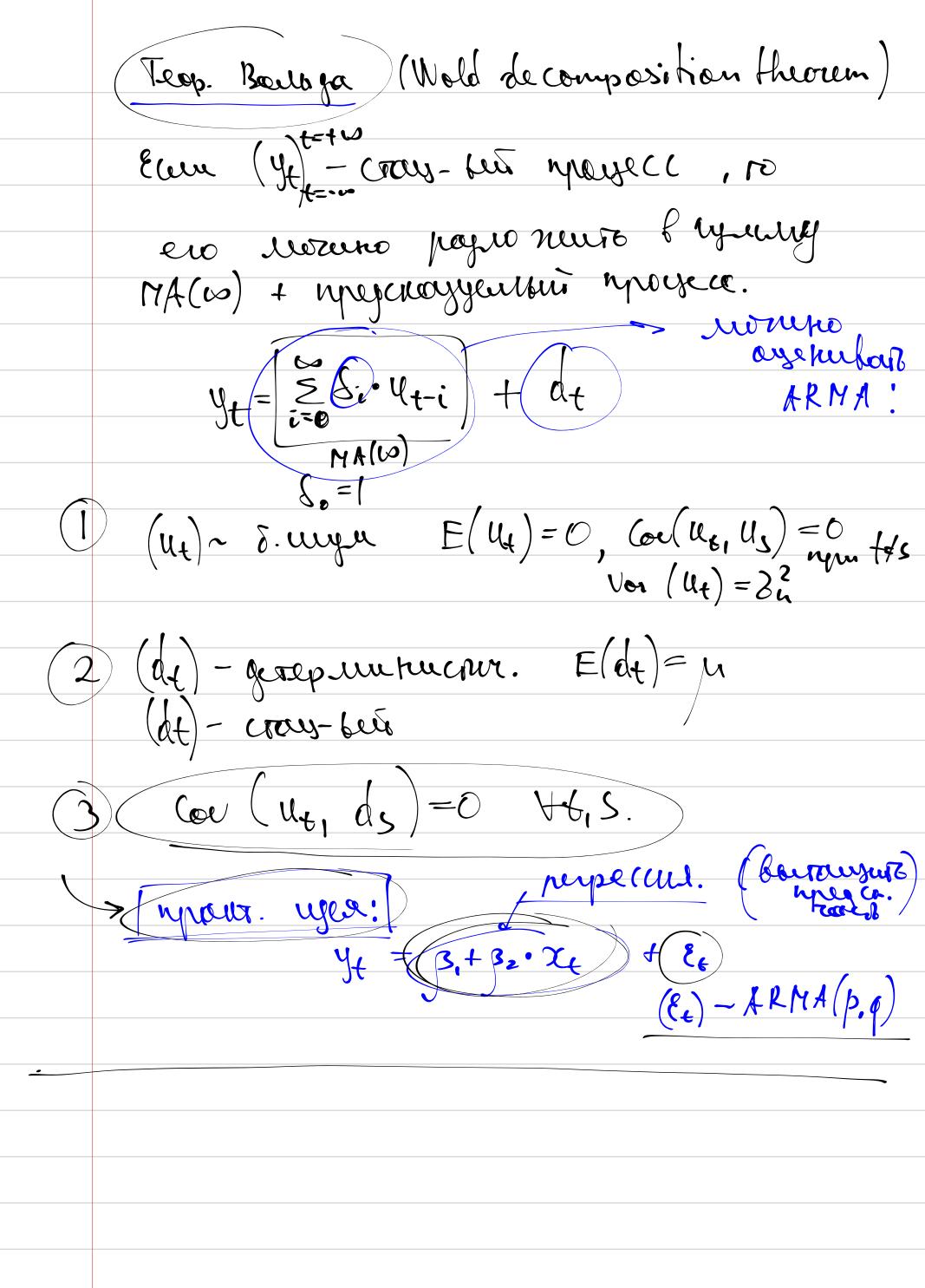
Teophera Boutga. hpobulua! etta or. vacro gropring.

hebyrne!

naternimatic"

recupronimatic

nugerajyenses orp. de - une to hog may yeurent  $d_t = \sqrt{d_t} + \sqrt{d_{t-2}} + \dots$ unt: eun paun de, dez, ... ro ugantono rocko praem de. Hommep. nogép. gla nyouwa X,, X2  $y_{t} = \begin{cases} x_{1} & \text{freeth.} \\ x_{2} & \text{frent.} \end{cases}$  $E(y_5) = E(x_1) = \frac{1+6}{2} = 3.5$   $Var(y_5) = Voe(x_1) = E(x_1^2) - (E(x_1))^2 = ... > 0$ Ut ~ d. Wyen (he job



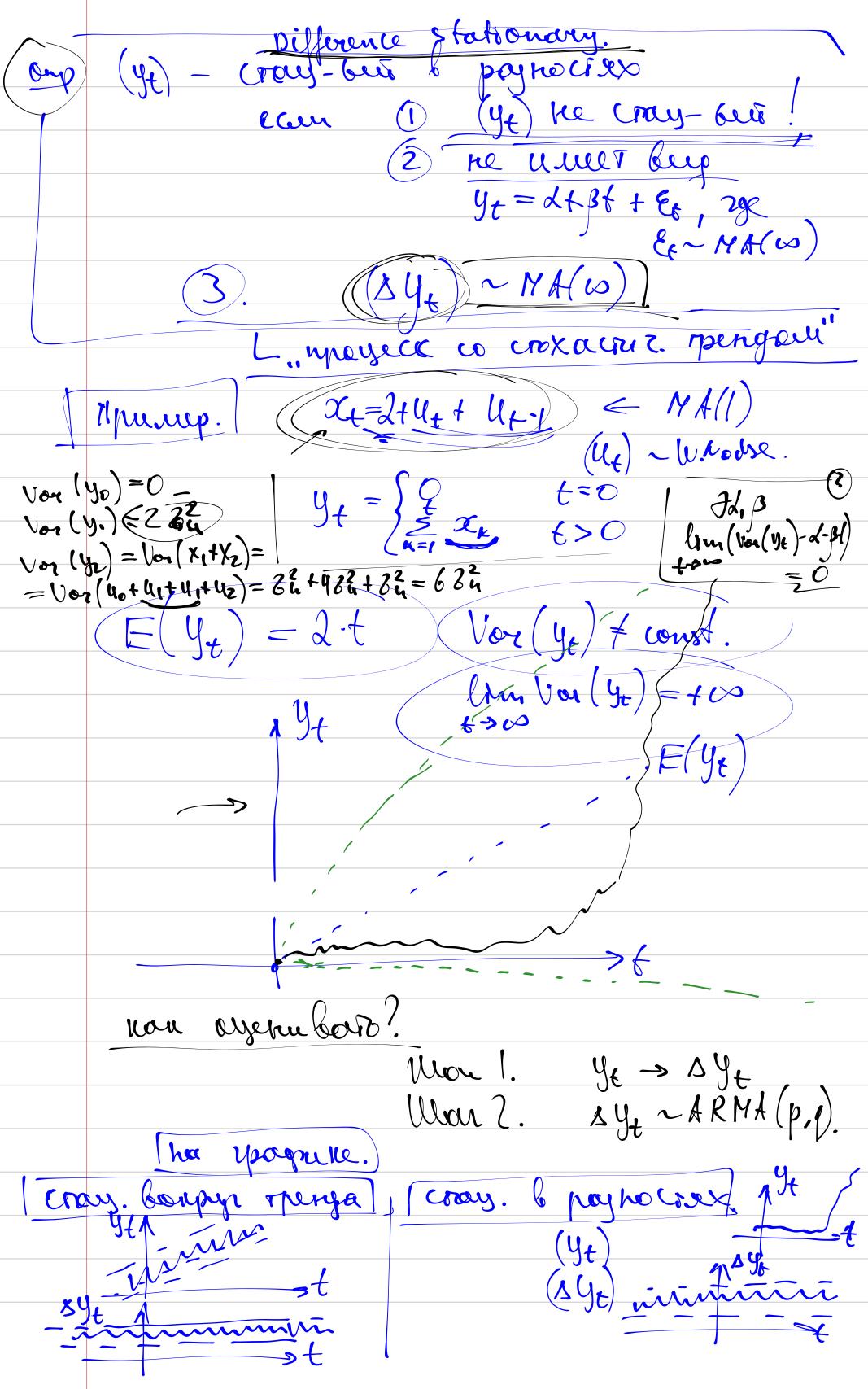
ETS-respell gle he cray-x nyroyer col Lnog how chey-you magent nomen upragragobare en ren, erodi de vous croy-11, faille mindely-18 ARMA-mogents. 13 ce ne cray. Mulyecca. cray-bea 6 nayrous Dofference stationary. marice punjan Trand Stationary. (y) ne cray  $\frac{del}{del} = \frac{1}{2} + 3 \cdot t + \frac{2}{2}$   $(8) \sim MA(\omega)$ Et=4-14-1+ +2511-5-1...  $E(y_t) = \lambda + 3t$   $E(y_t) = \lambda + 3t$   $\neq const$   $2t = \lambda + 3t + 16t$  (2t - 14)2 = cont 19t

8 = cont 19t

62t

craces. Vor(ye)= 22=cont/19t ye = 2+ B.t + Ex Wak overubors? Et~ cray. (ARMA/p.4 > mol marc. npargonopul Mar. nocipours perpeccuio paylue:  $\frac{\hat{y}_t = \hat{z}_t \hat{s} \cdot t}{\text{Uvan 2.}} \quad \mathcal{T}_t = \hat{y}_t - \hat{y}_t \\
\text{ousehure qua} \quad (\mathcal{T}_t) \sim ARMA(p, q)$ 

Junero hectery-x moyeccoff.



han er mans? [momes ders]	
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· ausomon Xarosnara-Xon Huana Estim	
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11 - + 5 (1000)	U. ~ DS (old lo ~
It Stationary	Stationary)
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la figure 97 (1), p)	$ln I(x_2, x_1 \Theta)$
norp. ARMA	nap ARMA.

def (yt) ~ ARINA (p, d, 9) - mousecc. interested "

uniterparseur 

uniterparseur grop haul no: yt - he cray. [u ke cray houpyr]
menza 8 yt - he cray. [ u the cray. loupyr] 5<sup>d-1</sup> y<sub>t</sub> - ke cray. [a re cray boupyi]

Not y<sub>t</sub> ~ ARNA(p, q) ha hyakrike: d=0,1,12 paggiero.  $y_t \sim ARMA(p,q)$  $^{2}y_{t} = \Delta(\Delta y_{t}) = \Delta(y_{t} - y_{t-1}) = y_{t} - 2y_{t-1} + y_{t-2}$ ~ARMA(p.g) Jyr. renorque ETS nogen reonette janucar non ARIMA (p, 2, 9) he cray. 6 C Ro Zx payr. Crows (MA(D) Boupyr 2 ~ ARIMA(p, 2,9) y ~ A PIMA(p, 1,9)  $y_t = \underbrace{\xi}_t x_t \qquad \xi_t - \underbrace{\xi}_t y_t$ Xe ~ARMA(p, 9)

XC-[MA(W)]. xt = u+ 4 5, 4+1 5, 4+1 62 4+1 ... (U)-WN | 25;2 c co Xt= ut lt uzeal: ugea 2: Mok Notitlett Hrb. mornto janucais WN vore MA/g)
blege MA(00) rge ble norgo-roe
Tygys or murme or O.  $V_{1} = \frac{1+\frac{1}{2}F}{1+\frac{1}{2}L} \cdot V_{t} = \frac{1+\frac{1}{2}I+\frac{1}{2}$ = 1 V ++1 + (|+ 4) V+  $u_{t} = \frac{1+\frac{1}{2}F}{1+\frac{1}{2}L} \cdot 2v_{t-1}$   $F(u_{t}) = 0$  $E(u_t) = 0$   $\omega(u_t, u_s) = 0 \quad \text{ryu}$   $t \neq S$ Ut = [+ (1+4).4-3+...] · MAI) [MA(W) · NN MA(2) · MR(3) . ARMA(S,6)