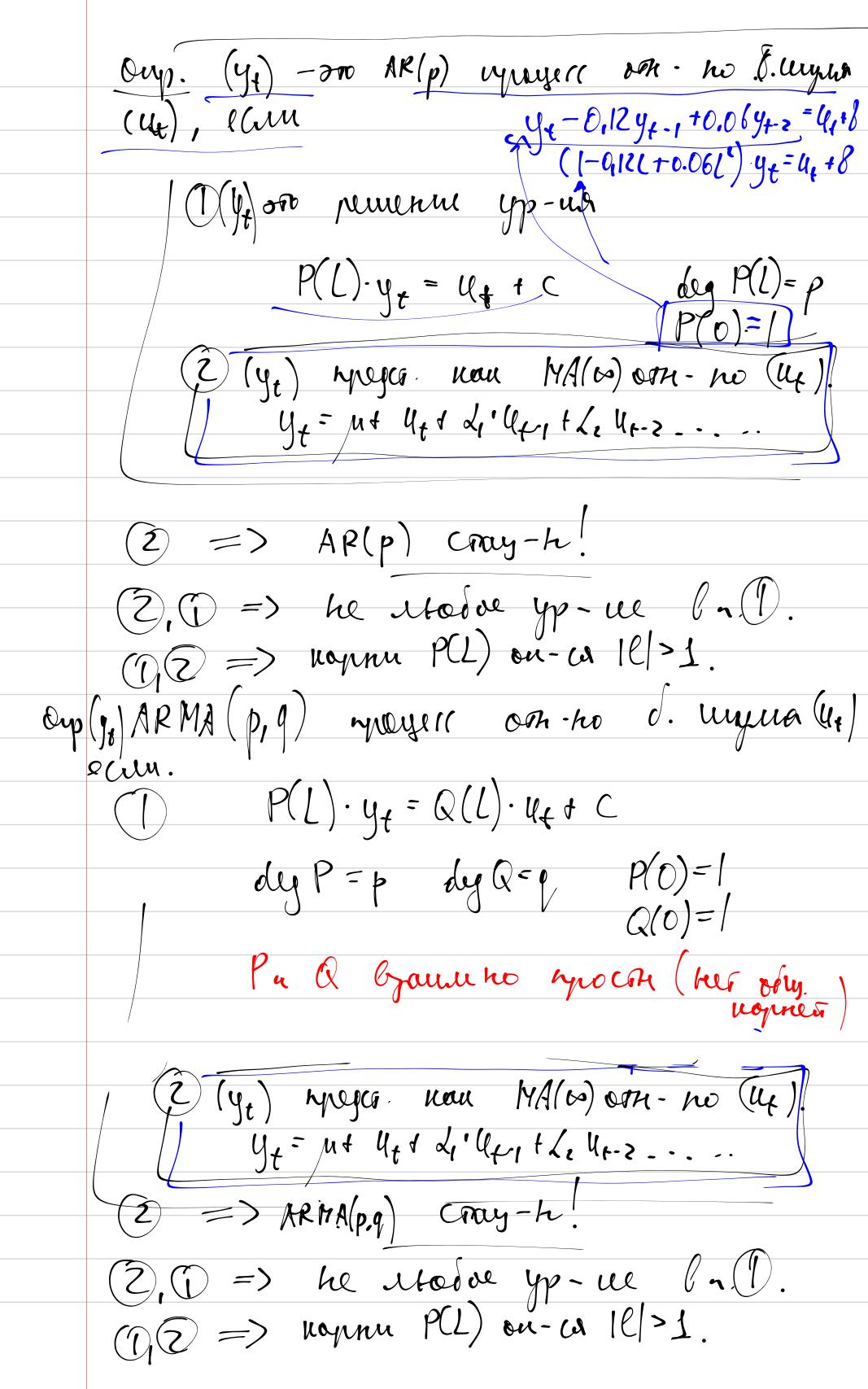
Mulli.
*RIMA
euné'
(1) yp-al-he yuye((
yt = 0.5 yt, + 4t, θt - δ. chyn.
Me Cray.
vay. plu.
(!) revenue ogun u vot zel nyreyell yanucart win peur pre proposix y un y = 1-0.51 4. = 4. +0.54+450
$y_{1} = y_{1} + 0.54 + 0.54 + 0.50$
$\mathcal{L}_{\mathcal{L}}}}}}}}}}$
) = (-21) = = F (1+0.5F+0.5f.)
y = 2. y + 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1
$y_t = \frac{1}{1-0.5l} \cdot u_t = \frac{1}{1-2l} \cdot v_t$
$\frac{1}{1-0.5l} \cdot U_{+} = \frac{1}{-2l} \left(\frac{1}{1-0.5F} \right) \cdot U_{+}$
1-0,56
(1-951).1.5
$Q_{+} = (1-0.5) \cdot \frac{1}{-2} \cdot F \cdot (\frac{1}{1-0.5}F) \cdot v_{t}$
1 eopenia: Par d < u Uf - d. myn, ro
1-21. U. Due 8. myu.



ARNA(II) son-no (U) (1-3L). 9x - (1+2L). U+ + C $u_{t} = u_{t}(0; \delta^{2})$ regal. Typ. y- ARMA(I,I) yverger &TH-ho (Ux) y = 0,3 y + 1 + 0,2 u + 1 ogranus. your re grysol yp-ul, pelle-u k-w alu-ch vo (1-0,3L). y = (1+0,2L) ut (1-0,32)· y - (110,2F) (1+0,2F)· uz (1-0,3L) y = (1+0,2F) · V+ (1-0,32)·yz=02F(1+5L)·Vt $\sqrt{1} = 0.2 V_{t+1}$ y+ = 0,3 y+., + V+ +5V+-

Oup ul (en lap-you! have lectures,
yt ~ ARMA (p, p) OTH- to (u) Lyt- cray- h, optimily, lhu on fine sucies ythere h, ythere up on- pio up
4+ evenuno mp- 76 b beige MAIN) om-no yt. 4+ = C+ ye+fy+++ diye-> + d3/k-3+
(Teopenia.) Par y sop. ARMA(p.g)con-two d. cuyua e) c y p- en P(L). Y = Q(L). U + C, TO be nopru Q(L) no nogyuo 161>1.
Teorema Trajori HRMA(p.q) morge ((dom-no 14) yp-ue u P(L). yt = Q(L). let t C by l = 1 y normnorma Q(L) gony emoret egin ch-nyro operrunyro jana Co.
ARIMA musica.
B qualle no cru uno ro ne cray-x groye rol. Solat: Yt-the cray-t
Syt-cray. Syt-ne cray. Syt-ne cray.
♥

Deys. ? cur Δy_{ξ} . ARMA[p,q) OPH-FED (U4) $< y_{p}$ -ulm P(L). $\Delta y_{\xi} = Q(L)$. 4 + CCocroposuro!] $P(L) \cdot ky_8 - \mu = Q(L) \cdot \ell_4$ $P(L) \cdot (y_4) \sim LRIMA(p, [l, q)) \quad \text{om-ho} \quad (u_4) \quad \text{op-ully}$ $P(L) \cdot (l-L) \cdot y_4 = Q(L) \cdot \ell_4 \cdot \ell_4$ ARIMA = tuto Regressive Integrated Moving

Oup (ye) ~ ARIMA (p, d, q) on-no d. unqua (u)

c yp-nem p(L)·(1-L)²·y=Q(L) 4+C, ean $e^{y}y_{t} \sim ARMA(p,q) \text{ or } x_{t}-p_{t} \text{ of } y_{t}$ $e^{y}y_{t} \sim ARMA(p,q) \text{ or } x_{t}-p_{t} \text{ or } y_{t}$ $e^{y}y_{t} \sim ARMA(p,q) \text{ or } x_{t}-p_{t} \text{ or } y_{t}$ $e^{y}y_{t} \sim ARMA(p,q) \text{ or } x_{t}-p_{t} \text{ or } y_{t}$ tra mours y- ARIMA(3,2,4) $2t = \Delta^2 y_t = \Delta y_t - \Delta y_{t-1}$ $2t \sim ARMA(3, 4)$ ARIMA gournna foir skonomerois. 26 nap-b. ye~ λ RIMA (iz(1,12) Δy+~ ARMA(12,12) Byt = C+ UE+ L. U+., + ... 1 2/2 U+12 + + B, Dyt-1+ ... + B12 Dyt-12 U1~ N(0: 22)

