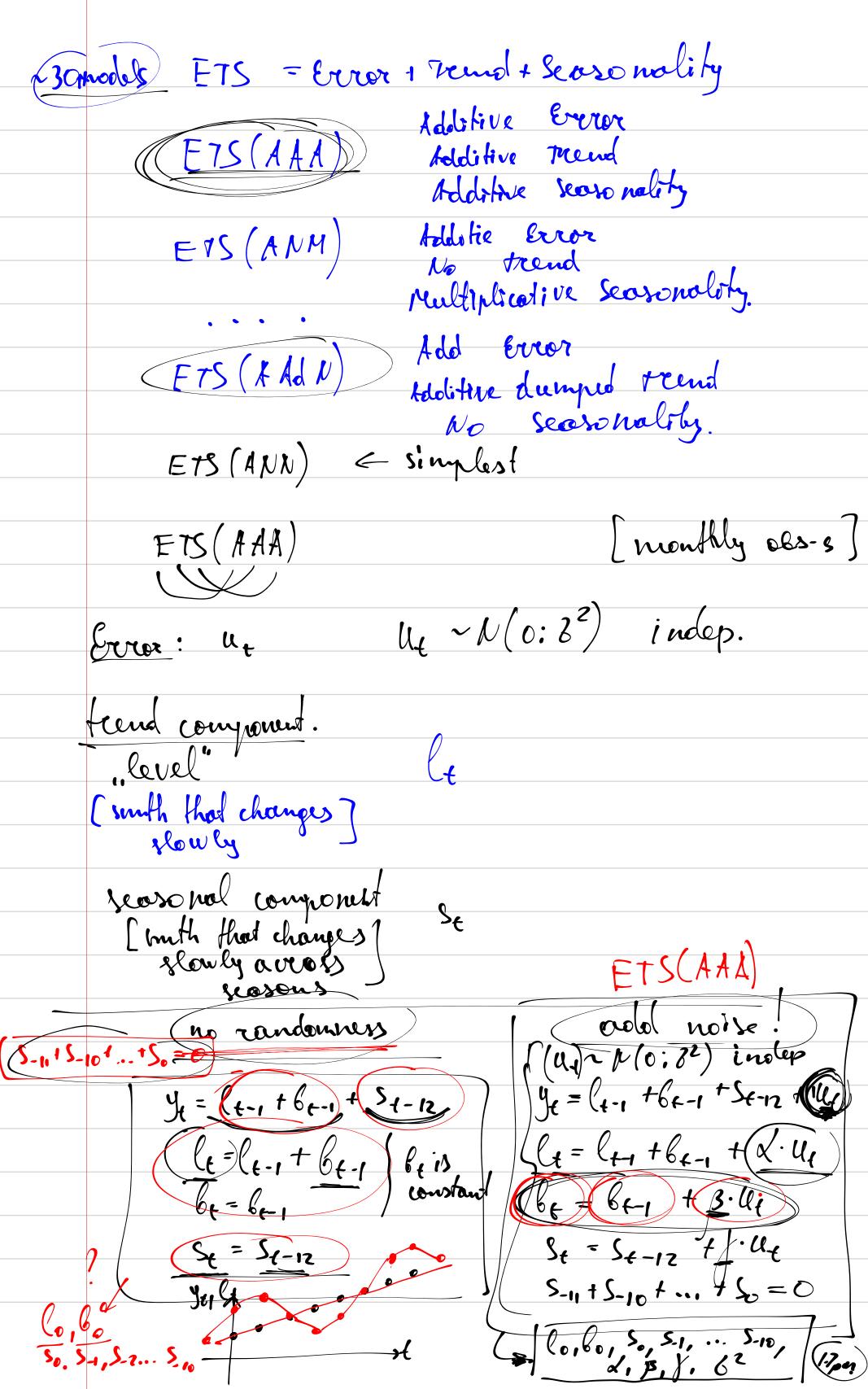
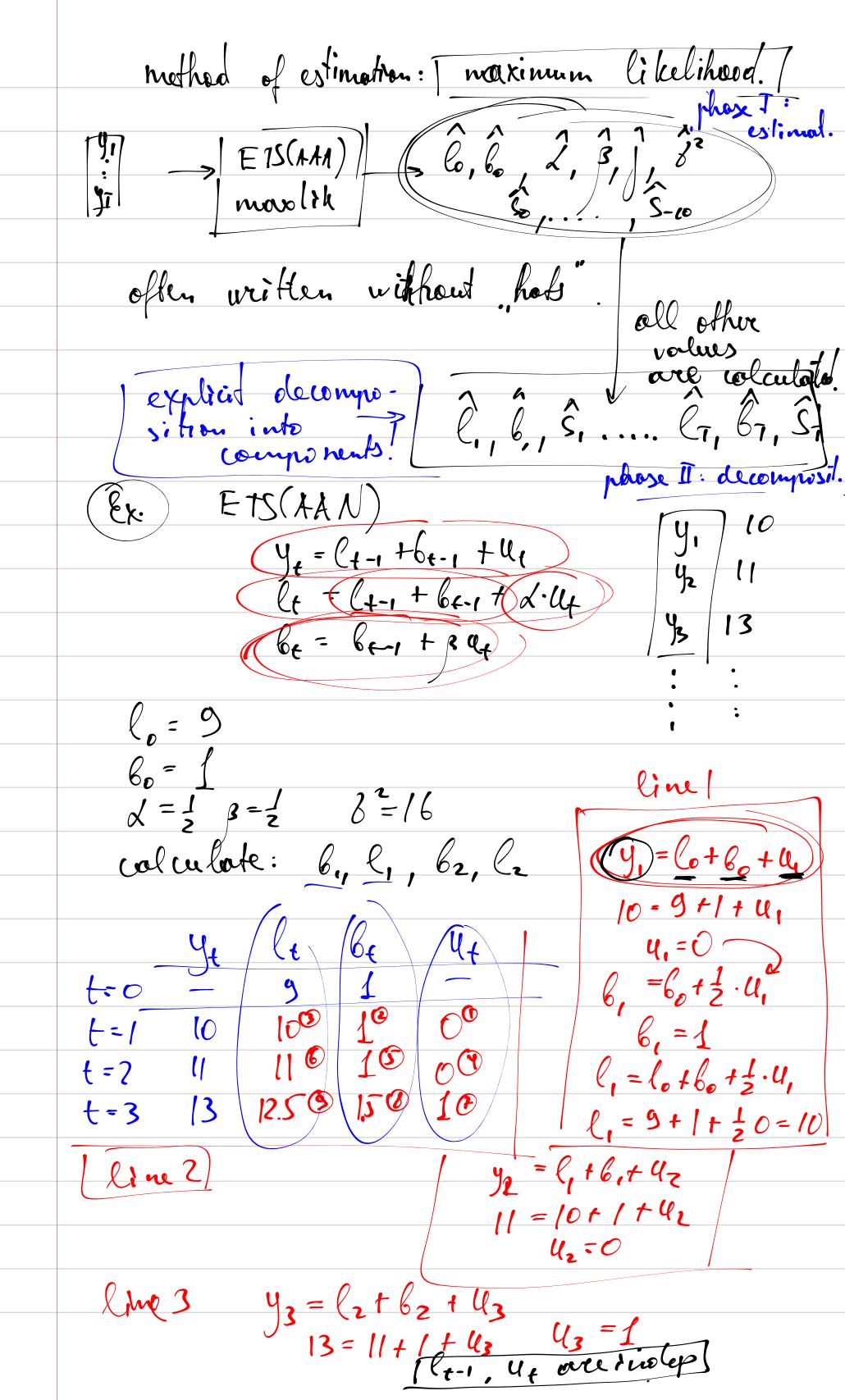
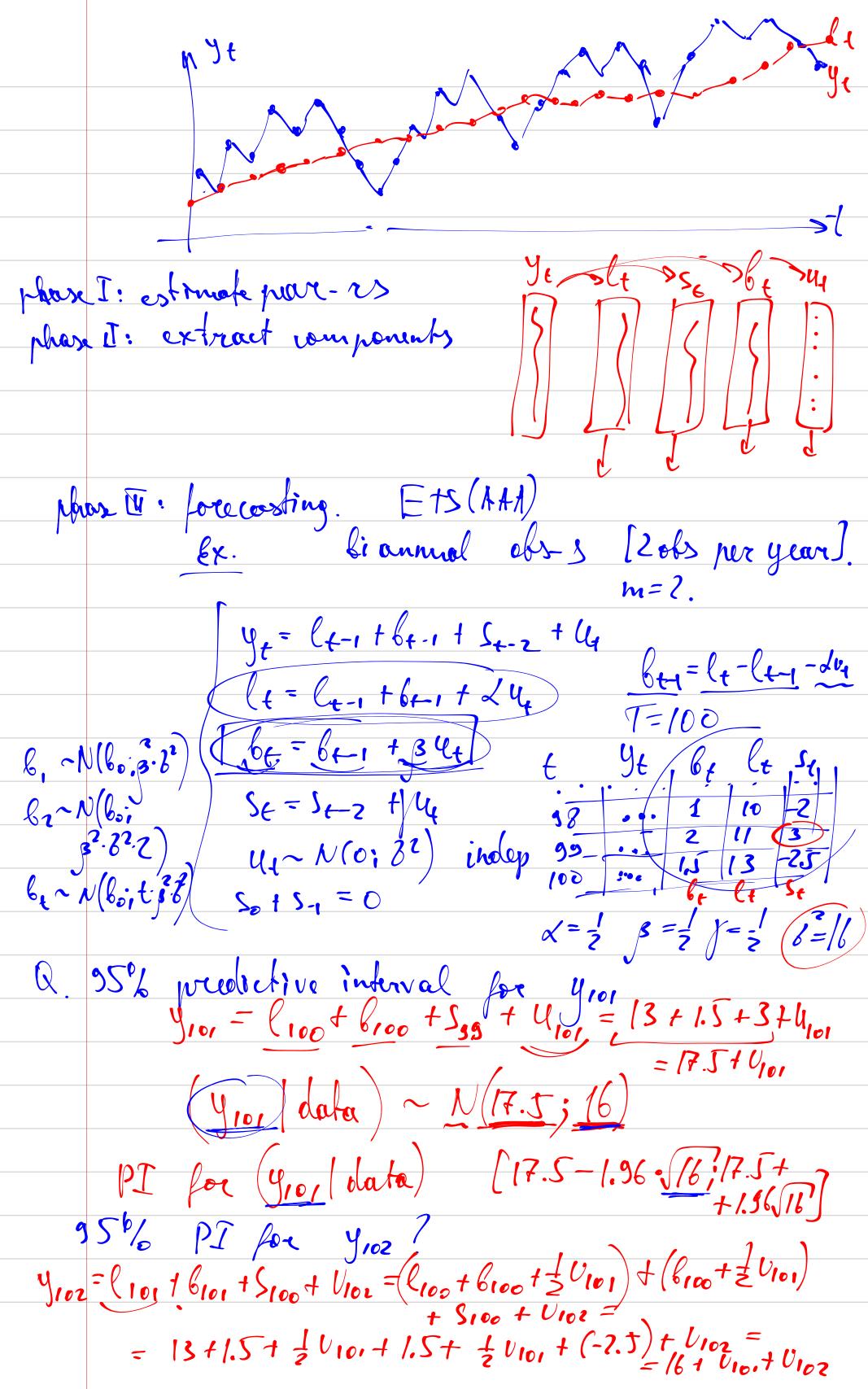
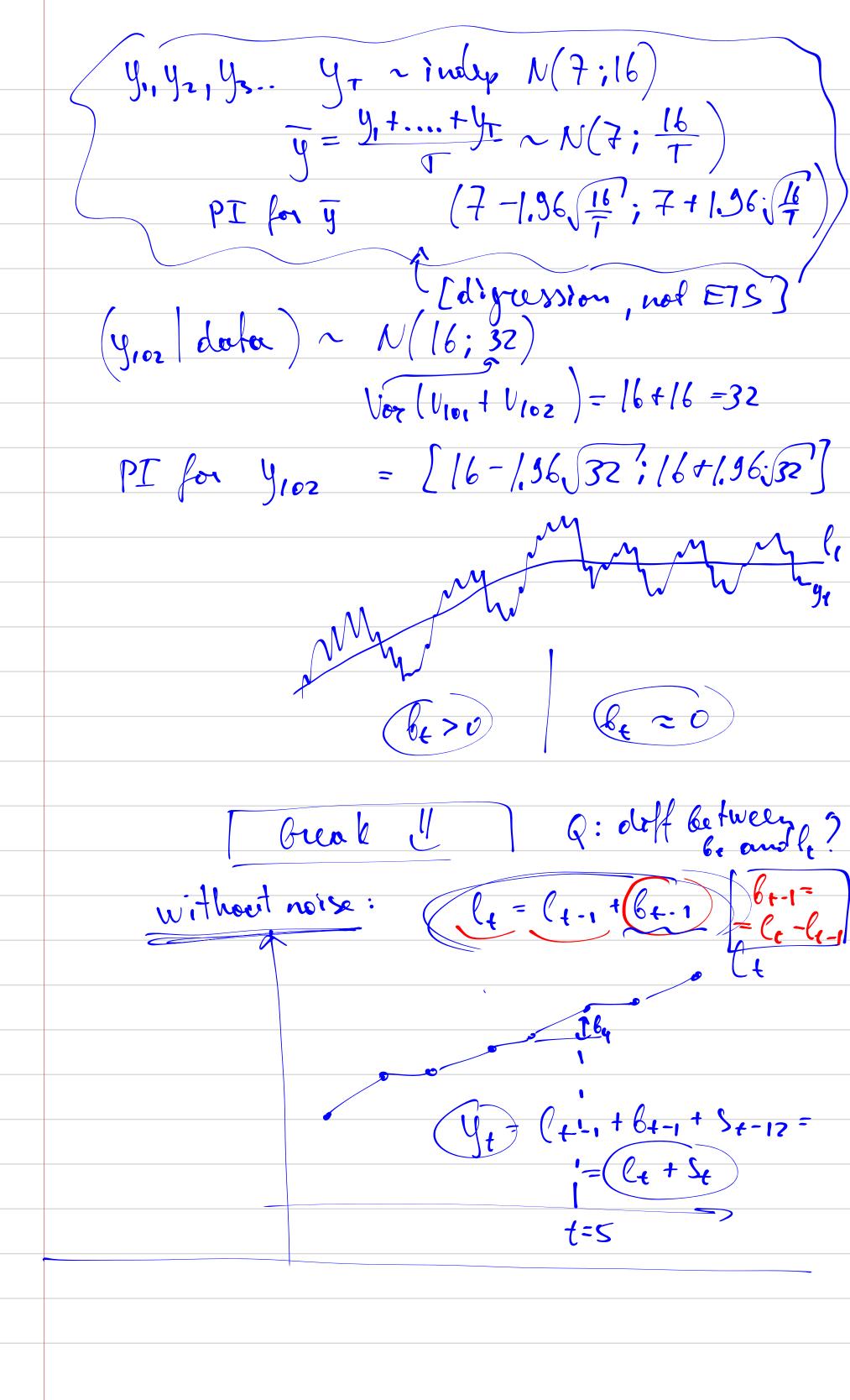
WZ R or l'inance ~ | hour FETS (REIMA) chan - 10 mentes 1 simple models
for shoot-krun
univariate TS forecosts. simple Ql. ARIMA model? Yx3 Q2. E75 model? ETS exponential smoothing.

without it. assumptions. (Statistical model. DLT - model -1010 [pp3] Rob Hyndman Forecosting principles and practice!

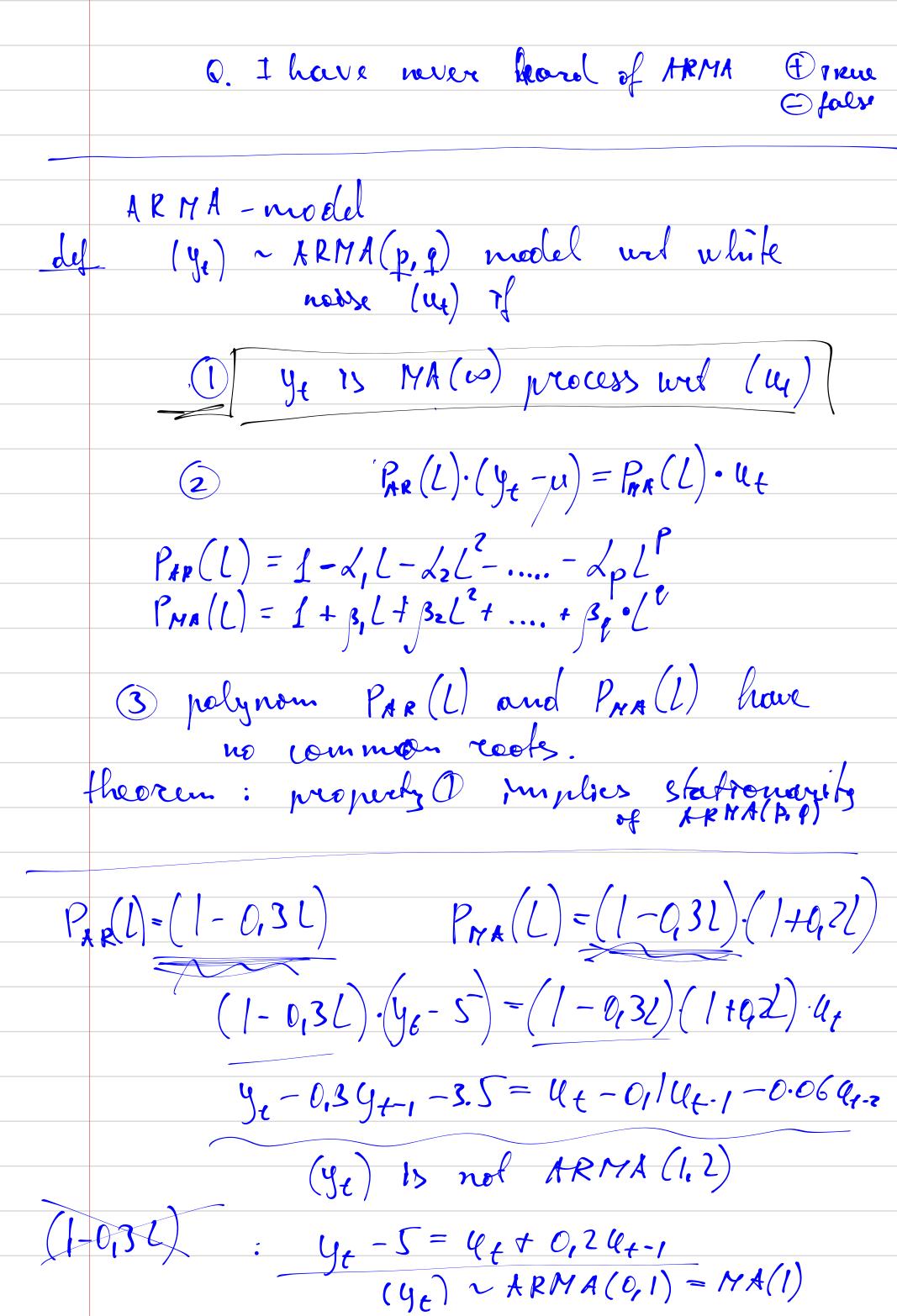


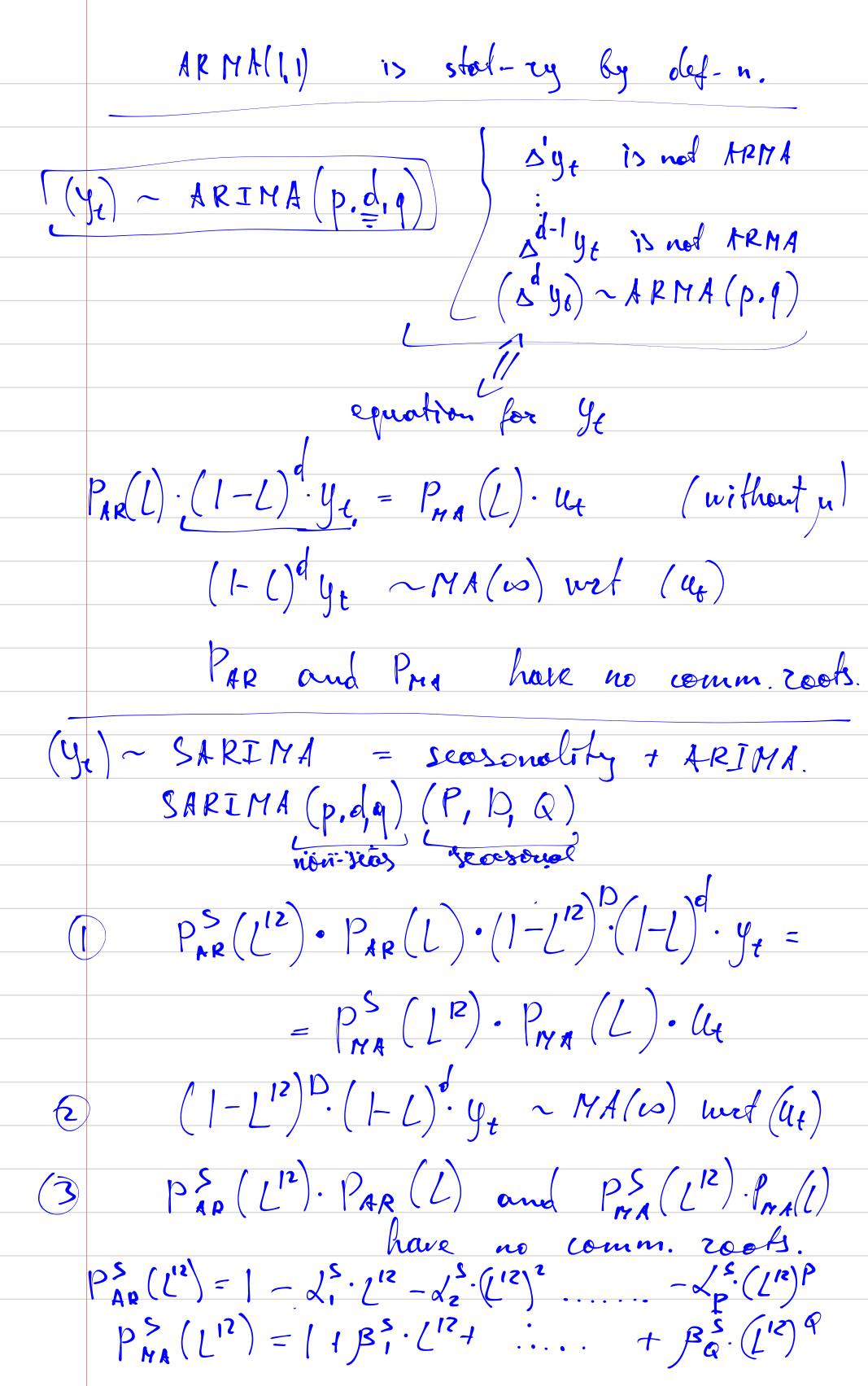






ARIMA.	handel
HKTI14.	model.





~30 n	rodels: E7S -> Tolecomposition into comp. 4.
	- focusasing
s m	adels: tRIMA -> estimation
	adels: tRIMA -> estimation forecosting
	hen to select the (lest model?
	All models are wrong but some are "
	asspex
¥	Fder (takes a lot of true)
	, check the forecost quality
	MAE, MSE
	y y - } y - + h y - + h
	£=T+1
	NAE
	e (AIC) a little bot of theory.
	Jast TRUE model [unknown]
	ETS(MAM) KL(ETS TRUE)
	* RMA(2,3)
	ETS(ANH) ARMA(I.I)
	AIC - AIC mod B (1) (1) (1) (1) (1) (1) (1) (1)
	The AllTRUE) -
(AI (com (o mad 70 o le la model)
	- Kl (mod B 11TRIE) AI (com compare only the models with the same number of obs-s.

	jaint peob-ty densoty
	ye~ ARMA(1,1) ← model for y y7
	Yte ARIMA(1,0) = nocoel for Syr, Ayz, Syr joint prob density
	! you can't compare HRMA(1,1) and HREMA(1,10) with All
	$= \frac{ARMA(3,1)}{9}$ $= \frac{9}{4}$ $= \frac{9}{4}$ $= \frac{9}{4}$
	y ~ whise y ~ / 0 000 0 0000 0000 0000 0000 0000
	normal 1 ~ AR(1) 1
(Vor (ye) = 32 /or yer) + Vor (ly) + 0 Vor (ye) = 32 / yer) + Vor (ly) + 0
	fast approximation. 142 142
	19T 29T-1

auto ETS "Skep1. Sistimate ~ 30 ESI models
skep2 chooses the less one by ATC

" outo KRIMI" = Hyndman- Khandakær

Step 3 Estimate many models with

Skp 4. Choose the Rest By ATC.