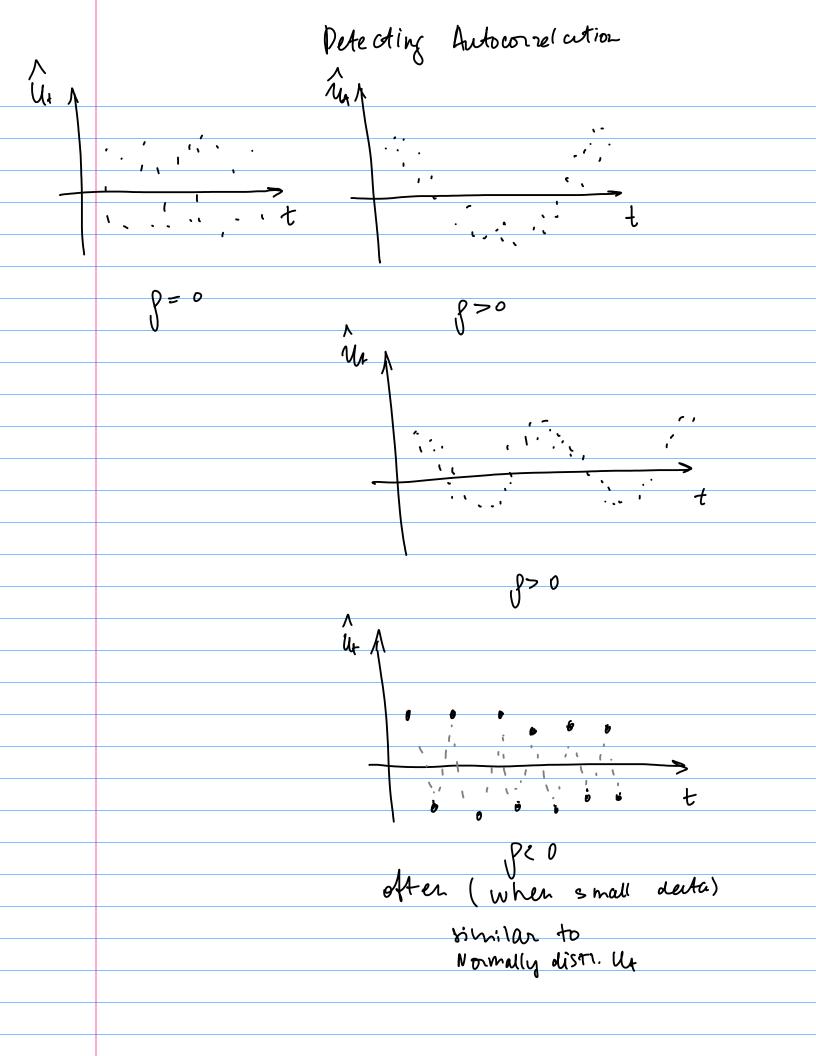
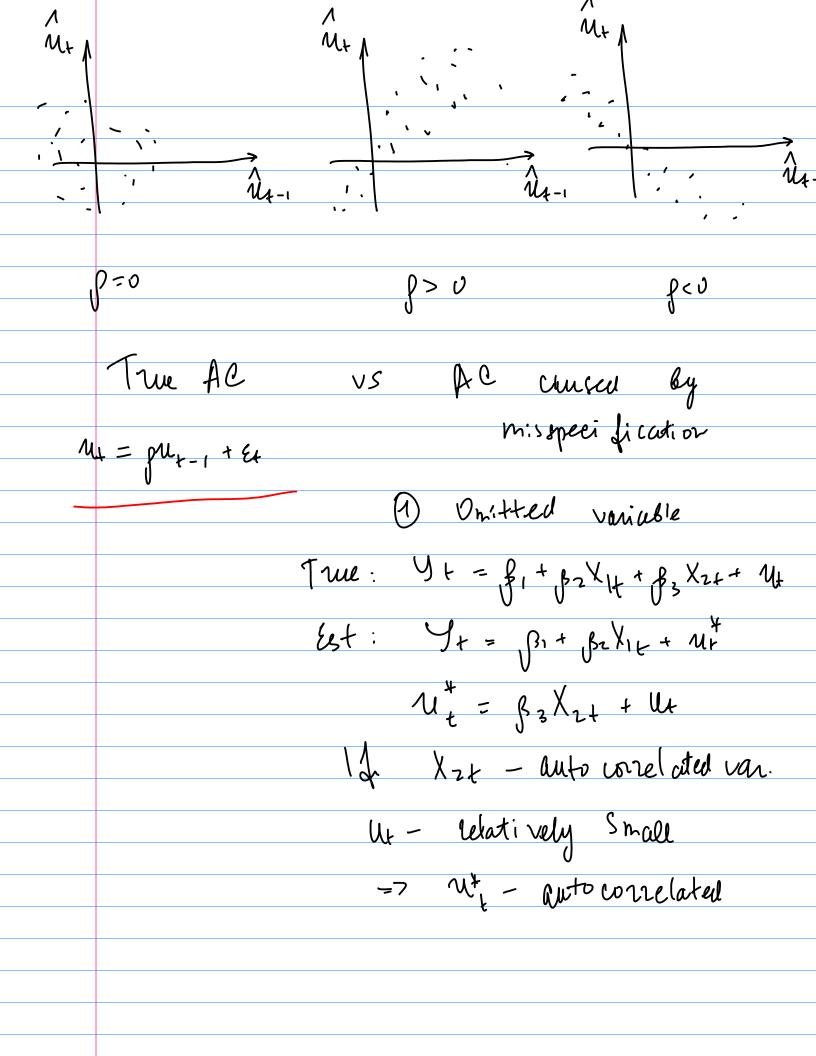
Auto correlation

often: n case quarterly/monthly data





2 Wrong functional form True: lh y = B, + Br / LX + 4 : Yt = B, + pxXt + Ut

	lonseque rces		4	Auto correlation (ho lagged yt			Yt)
A)	true	AC	- 7	no bier	, in U	gr. est.	
	Pos.		=7		t. s.e.		
				- > {	stuts a	ne inflat	-ed
				tests	are	invalid	
			N	test			
		(dur	15+ 0	rder AC			
		Lptions:					
,		for		order A	. C		
	2 . Mba	iel sh	would	cont. in	terept		
	3. N	0 \au	ged	explained	variable	in the	model
			_	L-DW	statistic	.S.	
			<i>/</i>		ho:	$\rho = 0$	
	DW =		É _t - 8	·+-1)		1 > 0	
	•	-	Z EZ			(p < 0)
						J	/

$$DW = \frac{\sum (\hat{\epsilon}_{1} - \hat{\epsilon}_{1-1})^{2}}{\sum \hat{\epsilon}_{1}^{2}} = \frac{\sum \hat{\epsilon}_{1}^{2}}{\sum \hat{\epsilon}_{1}^{2}} = \frac{\sum \hat{\epsilon}_{1}^{2}}{\sum \hat{\epsilon}_{1}^{2}} + \frac{\sum \hat{\epsilon}_{1}^{2}}{\sum \hat{\epsilon}_{1}^{2}}$$

$$\frac{\sum \hat{\epsilon}_{1}^{2}}{\sum \hat{\epsilon}_{1}^{2}} = \frac{\sum \hat{\epsilon}$$

Purlein h-test

$$h = \int \frac{h}{1 - h \operatorname{Van}(\hat{\beta}_{t-1})} \sim N(0, 1)$$

$$h = (1 - 0.5) \text{W} \sqrt{\frac{h}{1 - h}} \sqrt{\text{Wlq1}}$$