1) The sample ACF + its AB7 difference where n=100

69 1 2 3 4 5 6 KF Yi .97 .97 .93 .85 .8 0.71 ACF TYE -42 16 -02 .07 -1 -09

47 ARIMA(p, g,q) where p is the order of autoregressie d is the order of dissecuring, and q is the order or maing ourage.

5) Ssike at lag 1, therefore Hut's order is 1

45 Coly 1 significant spike for partial autoremedition so AR order is 1

5 ARIMA (1,0,1)



3) Assume that Eer3 and EN13 are independent Gausse while noise series with mean zero and unionce 1. Het sees and Xt kilbus the series Ke=Xe-1 + Nt. What is the model for the doornal time series Ye = Ke + Ct.

1> Yo = Xo + eo => Yo = (Xr-1 + Do) + eo => Yo = Xon + (No + eo)

17 The parameter one:

47 X6-1: Lagged value of the latent process

15 Dr + Cr: Sun of the white noise from roadon walk model and observational note

10 Sine No and Co have mean a and variable 1

45 Moorn: C

arrance: 2