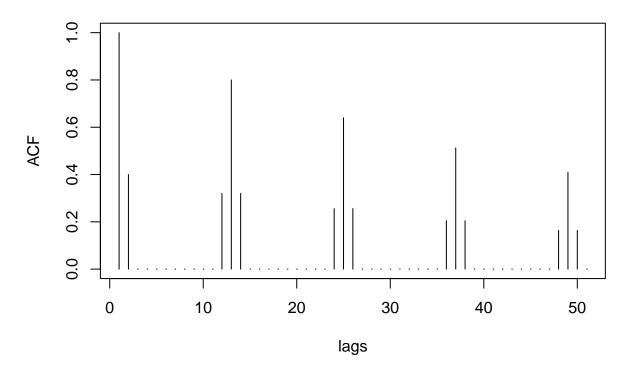
Assignment 05; STAT 626

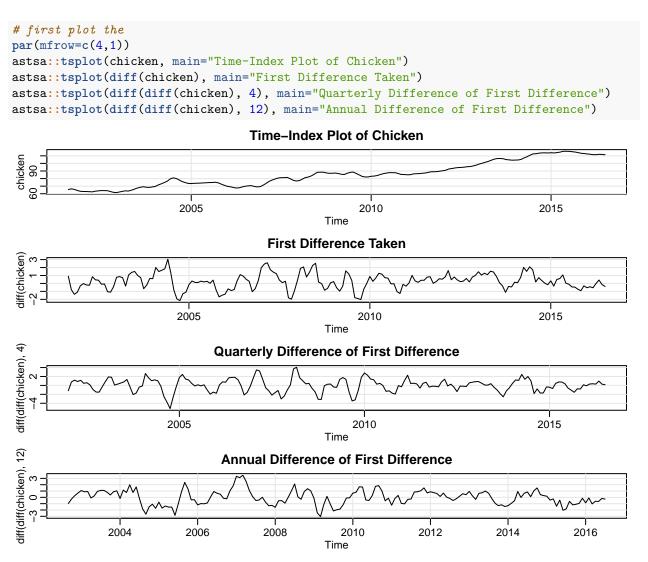
Philip Anderson; panders2@tamu.edu 7/03/2018

Question 3.19

Theoretical ACF: Φ_{12} =0.8 θ =0.5



Question 3.20



From the above ACFs+PACFs, it appears that annual differencing is a good option. The final ACF+PACF combination shows a tailing off in the ACF, but a cut-off in the PACF at the seasonal lags. This suggests that a suitable model may be SAR(1), P=1, Q=0 in S=12, or $SARIMA(1,1,0)x(1,1,0)_12$.

