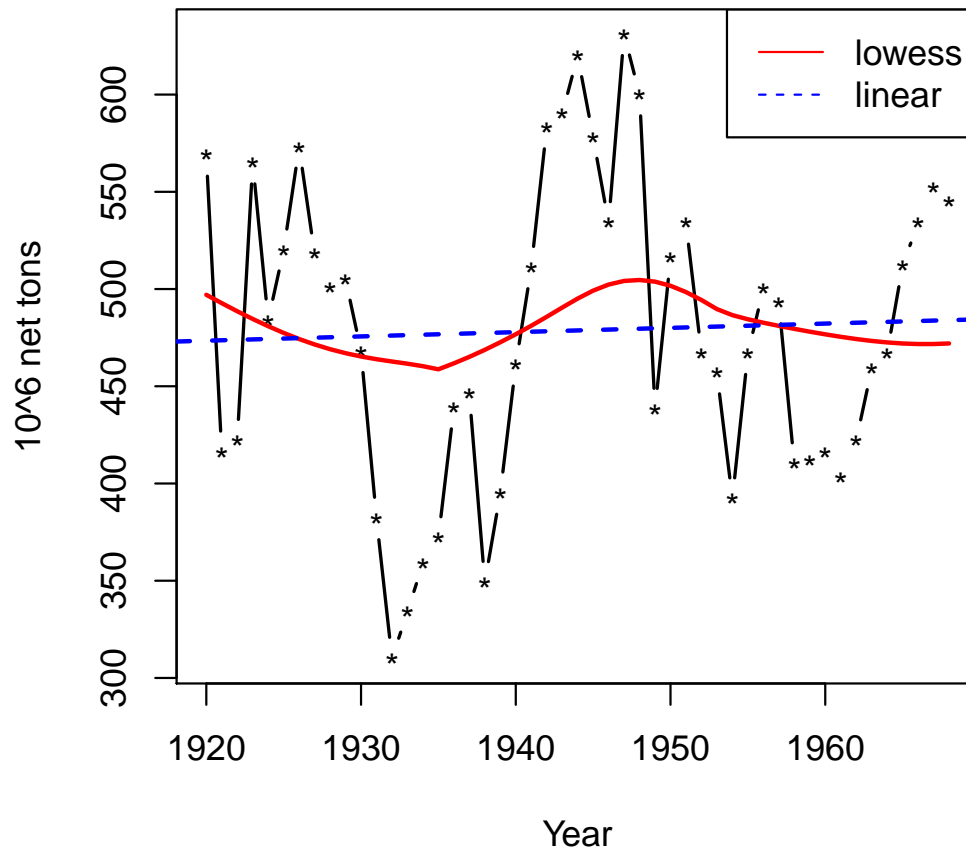


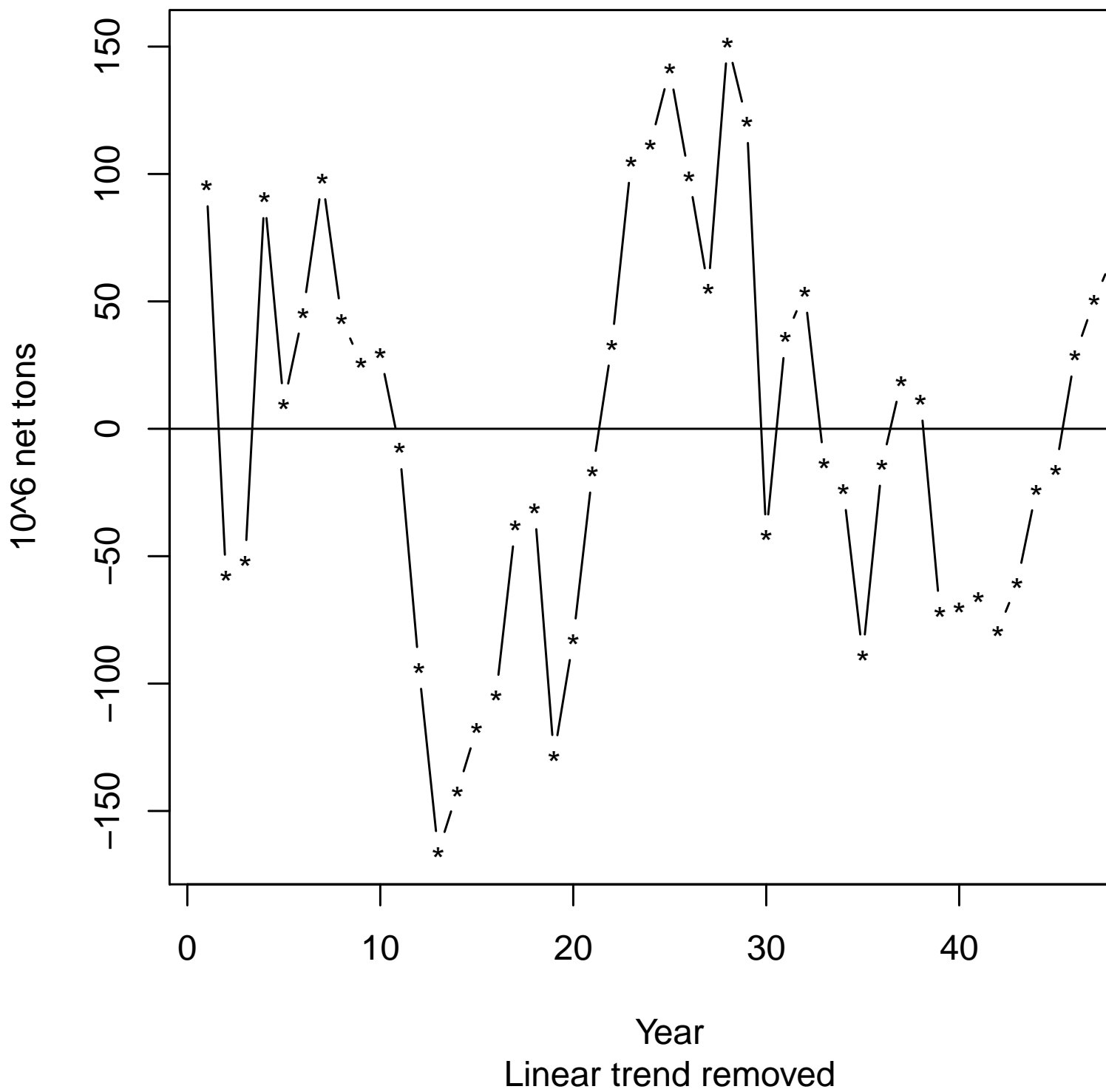
STAT7026 Assignment 2

lot of Annual Bituminous Coal Production from 1920 to



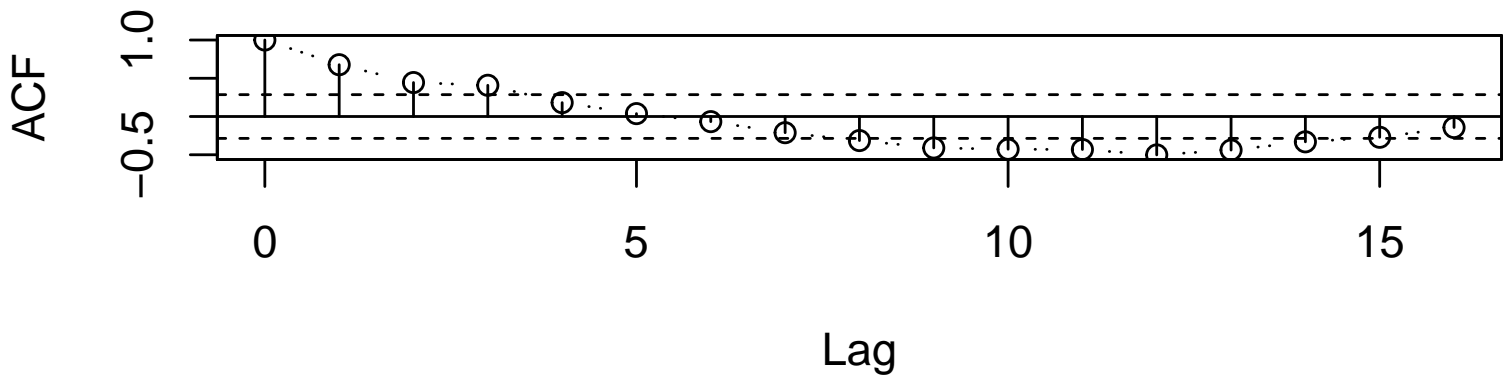
```
## (Intercept)  time(coal)
## 51.0216655    0.2200064
```

Detrended Annual Bituminous Coal (1920–1968)

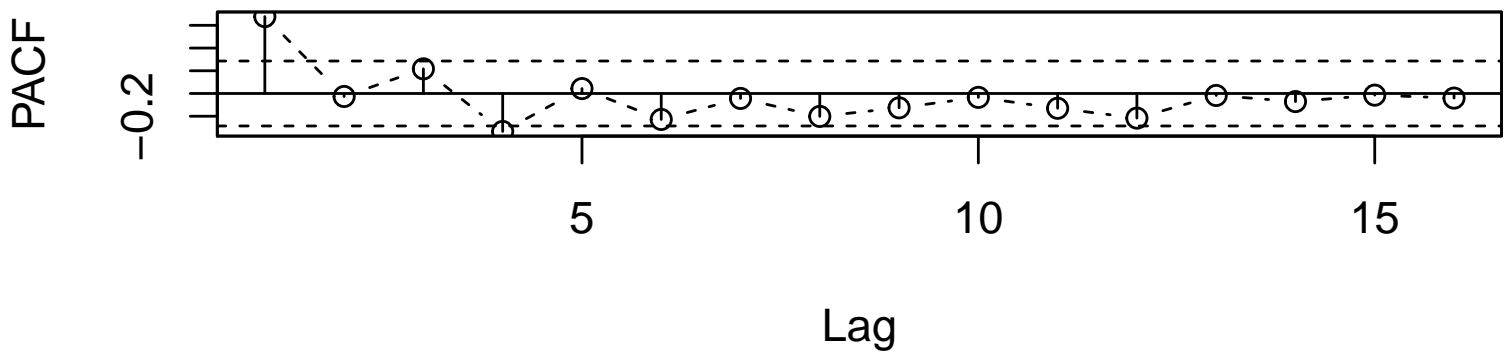


Box–Jenkins ARMA Model Identification for Residuals

Autocorrelation Function



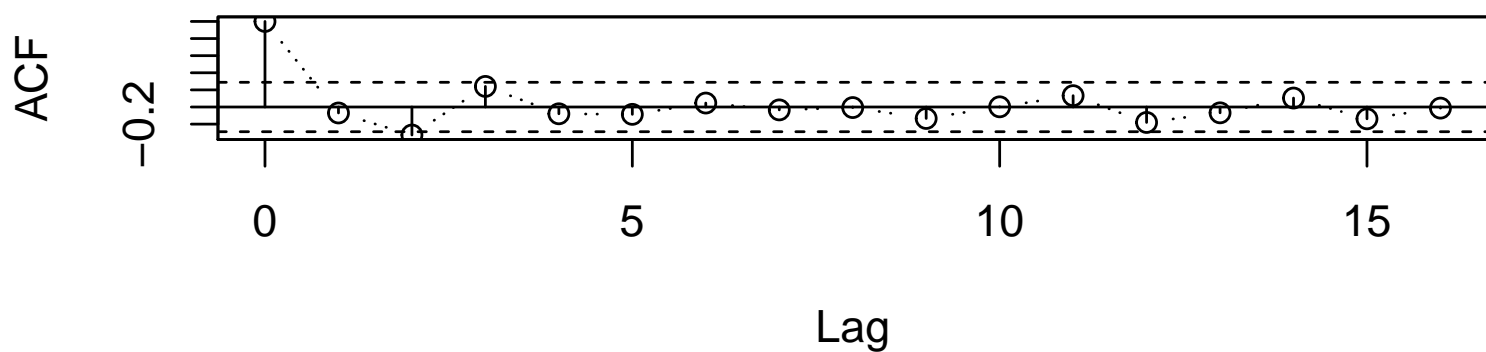
Partial Autocorrelation Function



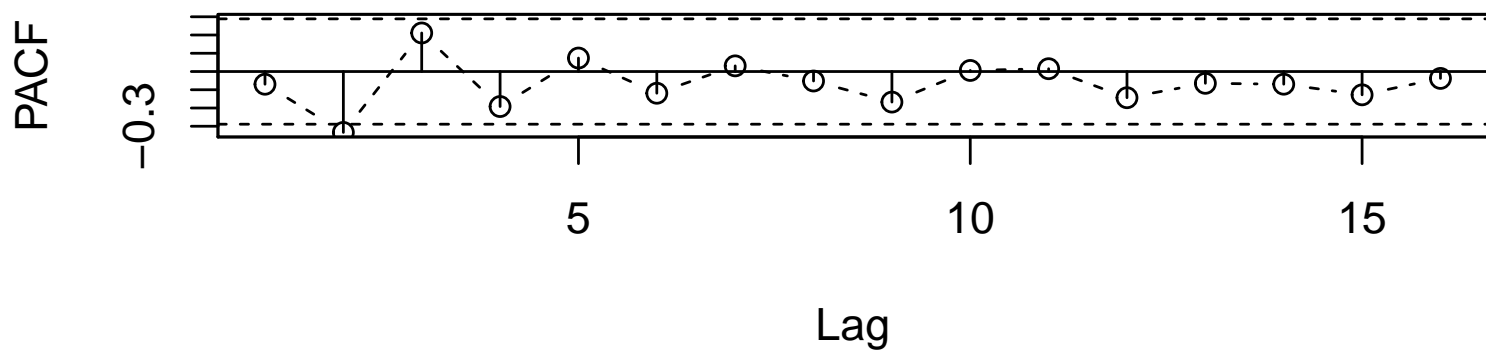
Raw Scale

kins ARMA Model Identification for Residuals for 1s

Autocorrelation Function

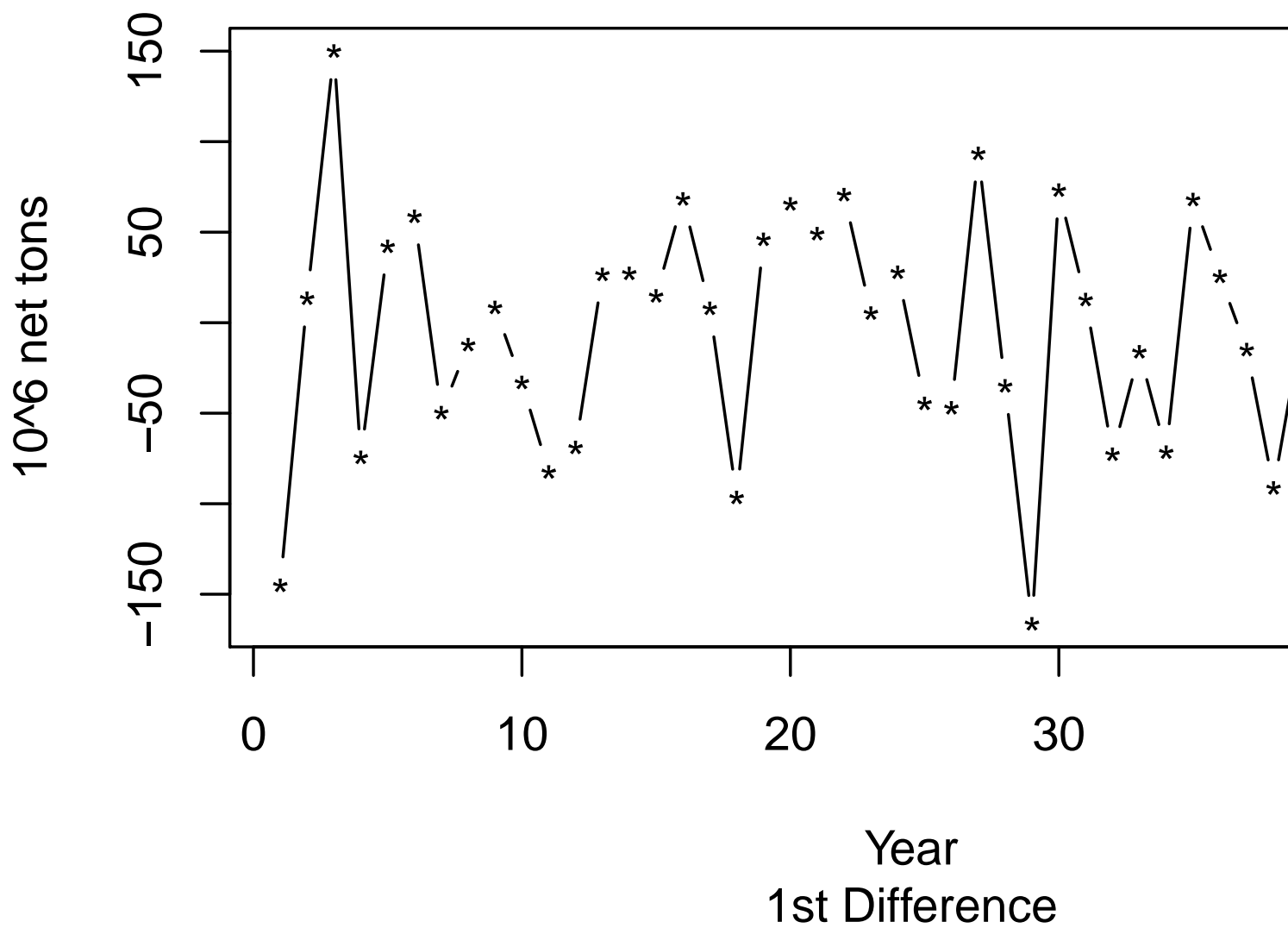


Partial Autocorrelation Function



Linear trend

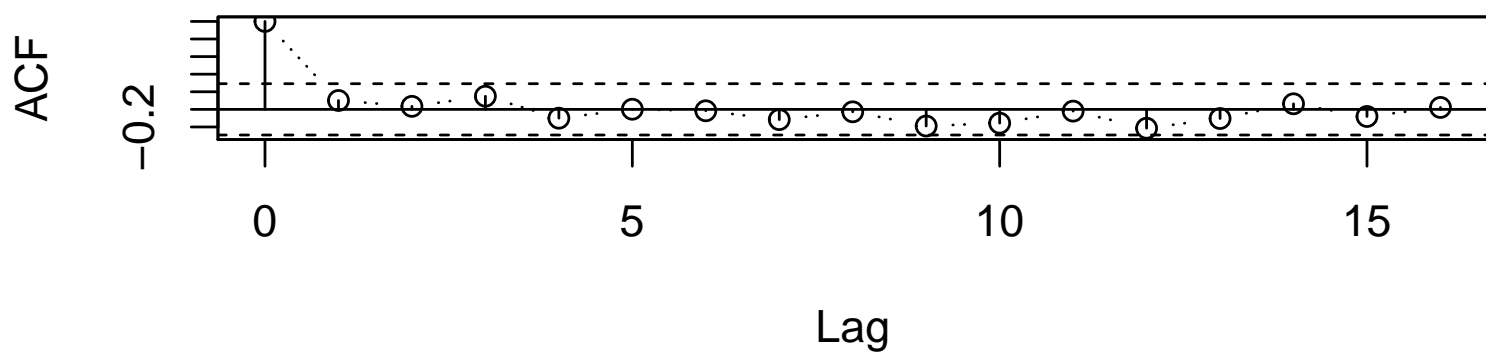
Detrended Annual Bituminous Coal (19



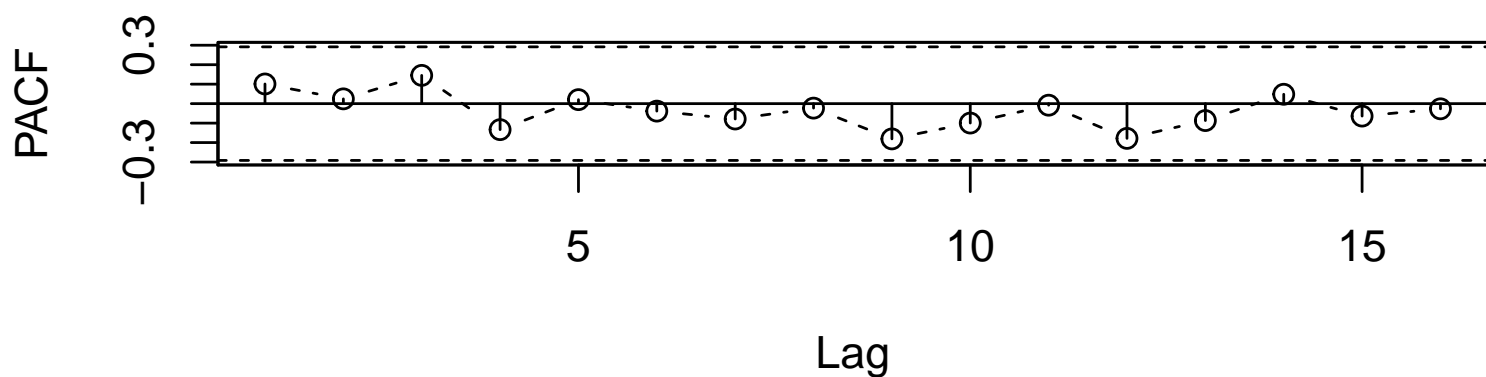
[1] -0.1245359 -0.2910972

kins ARMA Model Identification for Residuals for 1s

Autocorrelation Function



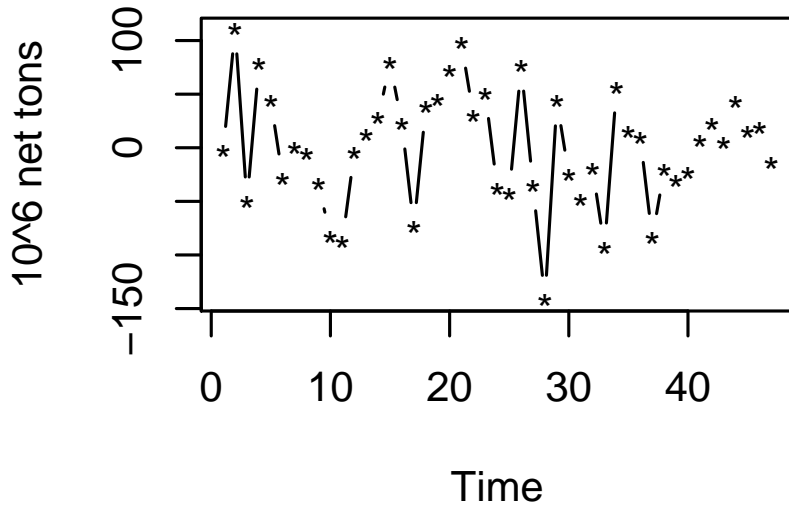
Partial Autocorrelation Function



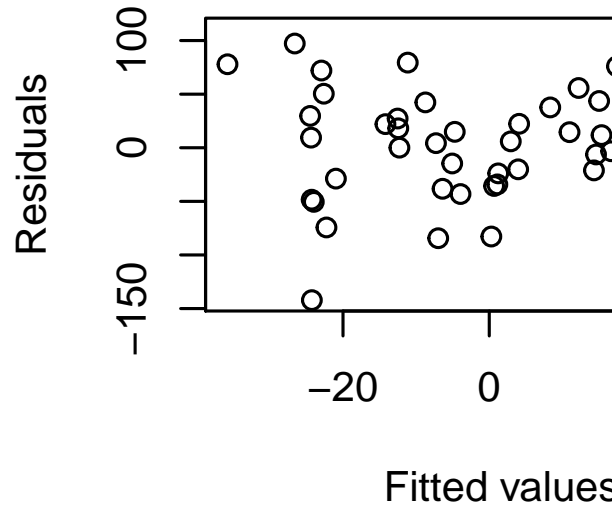
Linear trend & AR(2)

1st Differenced Residual plots fitted linear trend and AR(2)

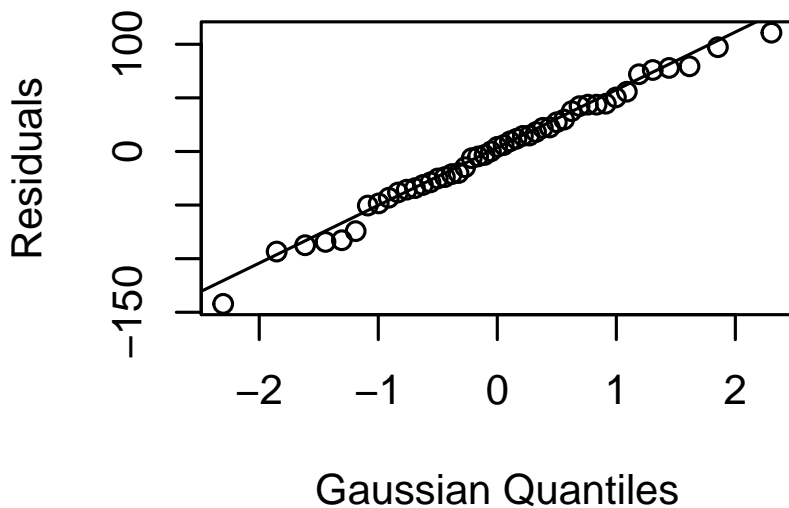
Residual Plot



Residuals vs fitted



Quantile-Quantile plot



Absolute Residuals vs

