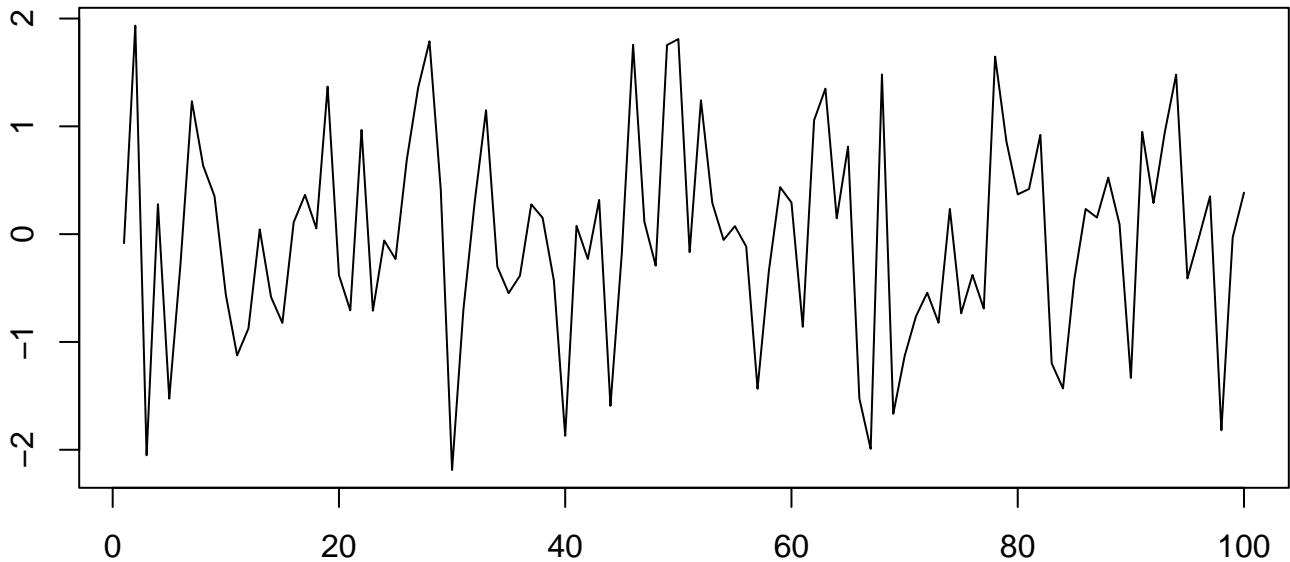
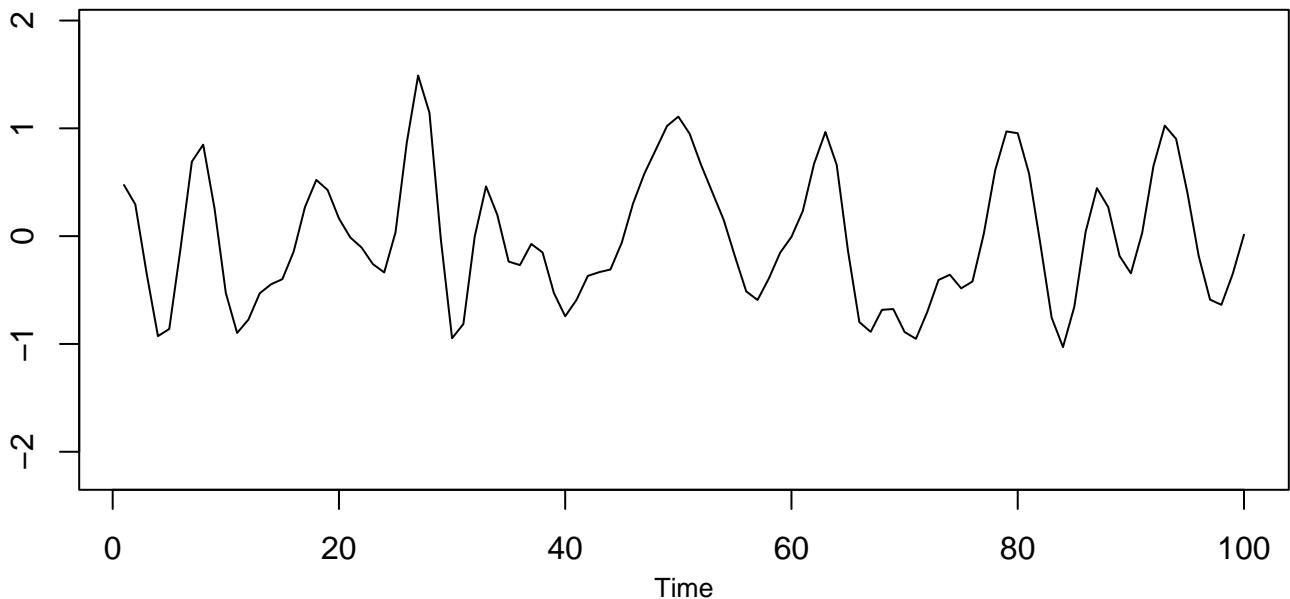
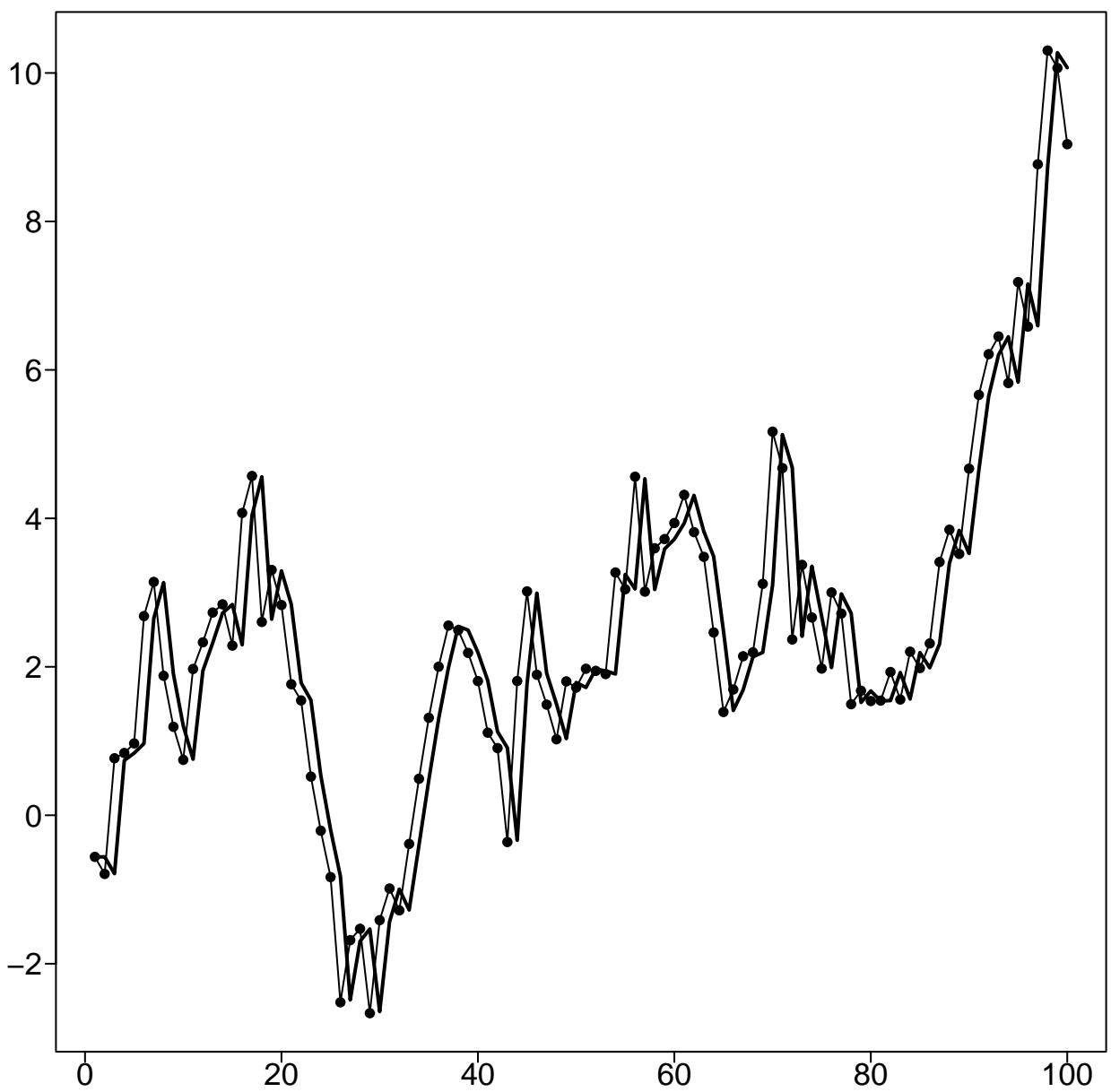


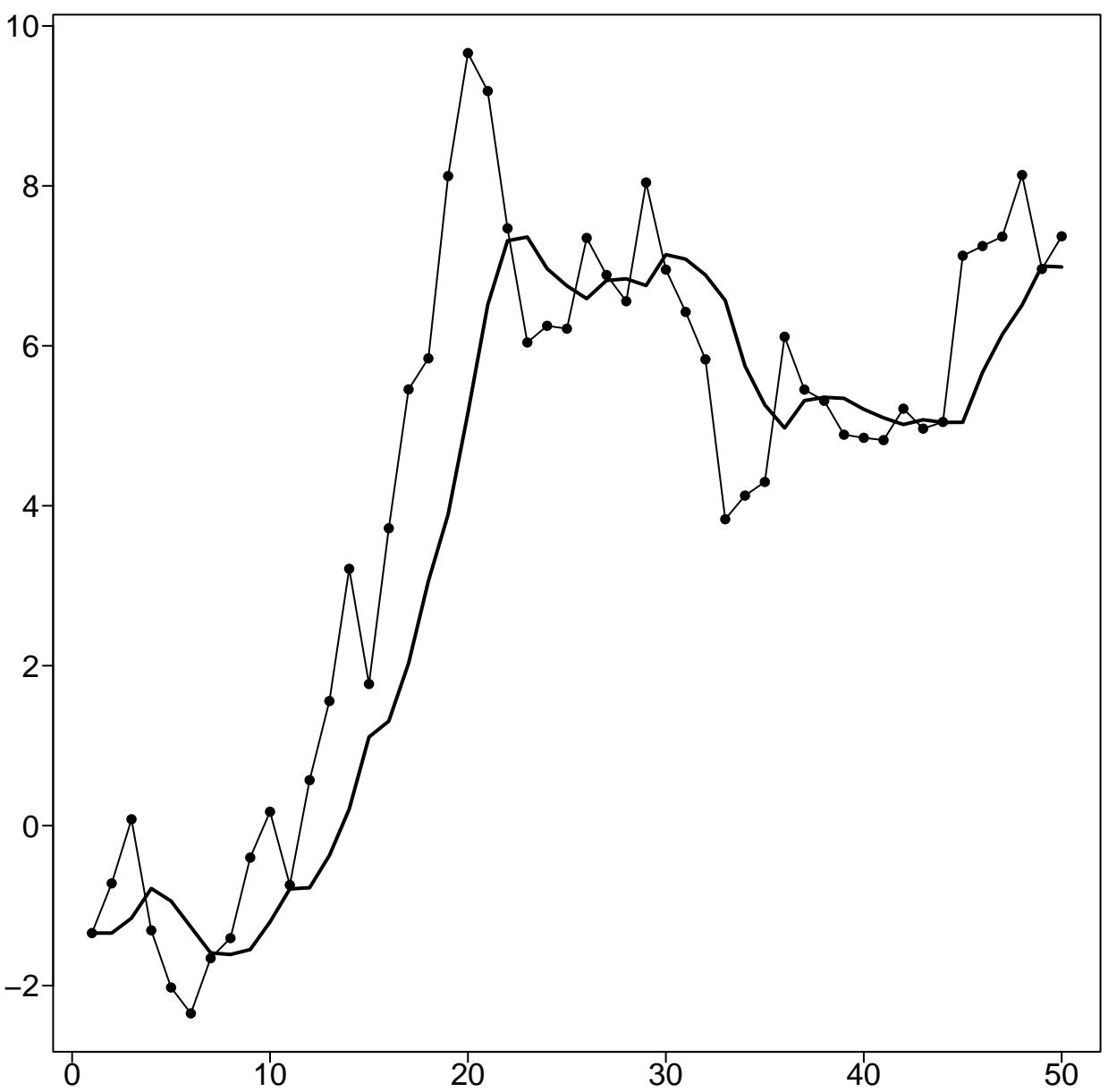
## Original Series

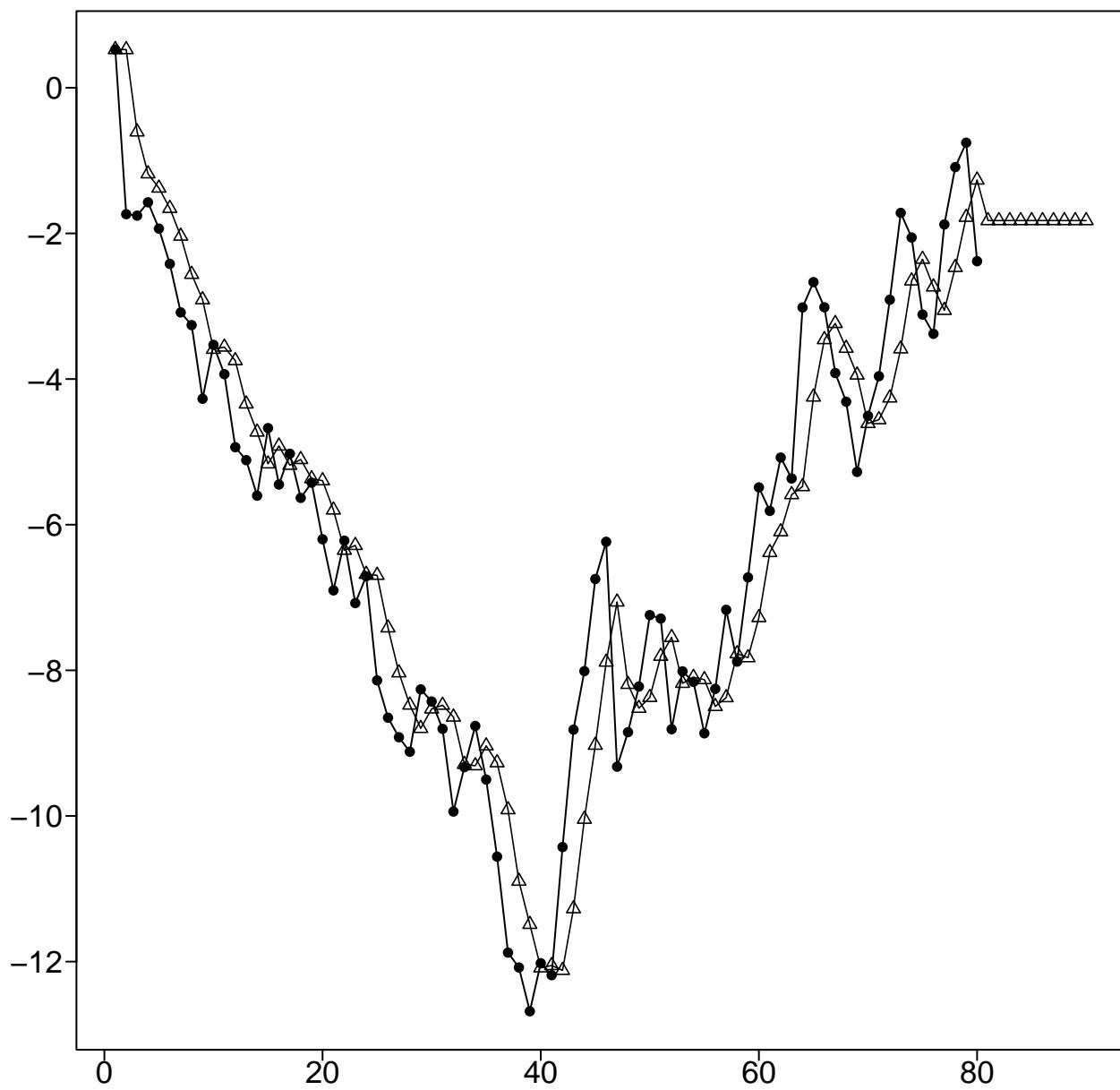


## Filtered Series

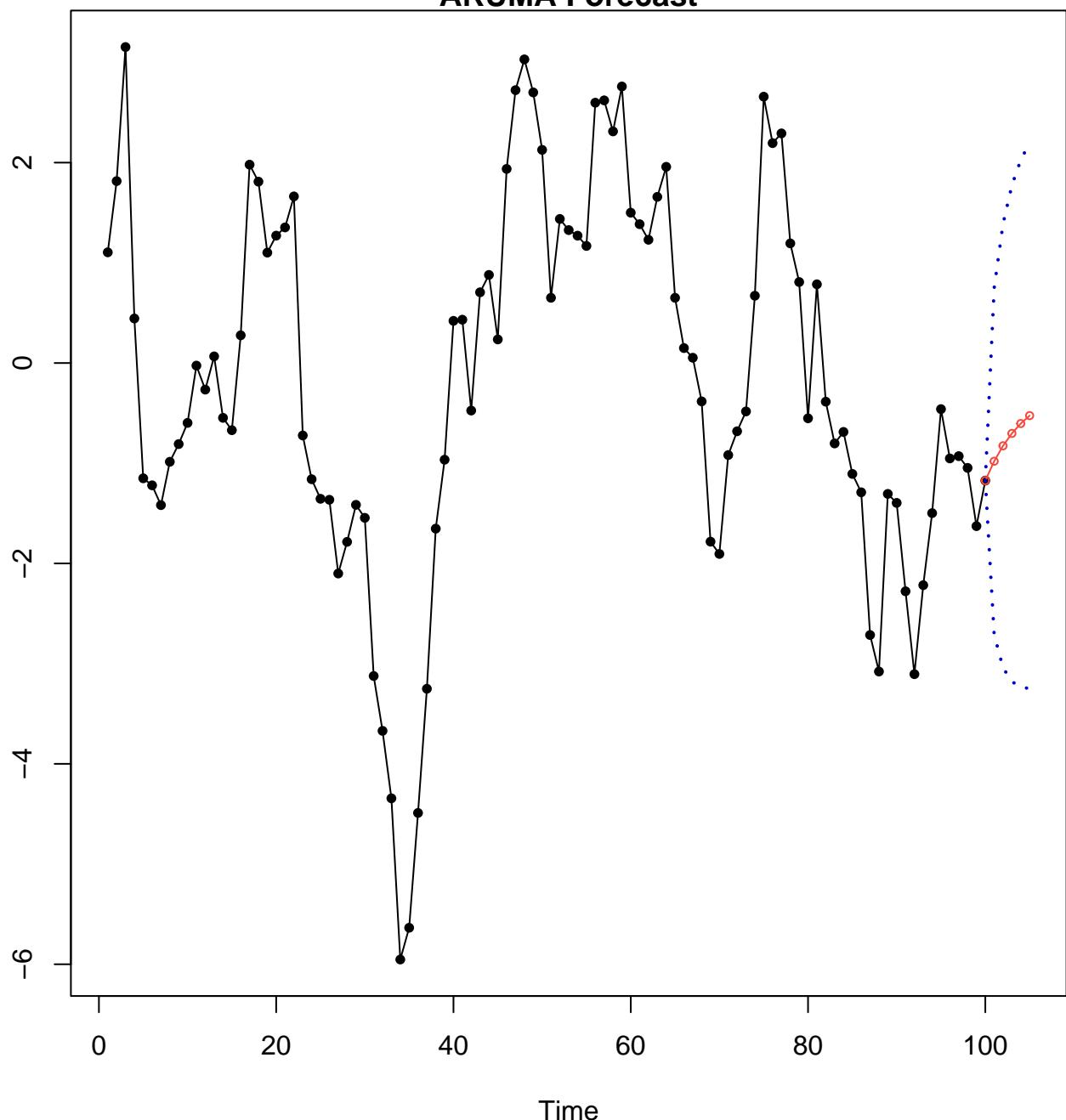




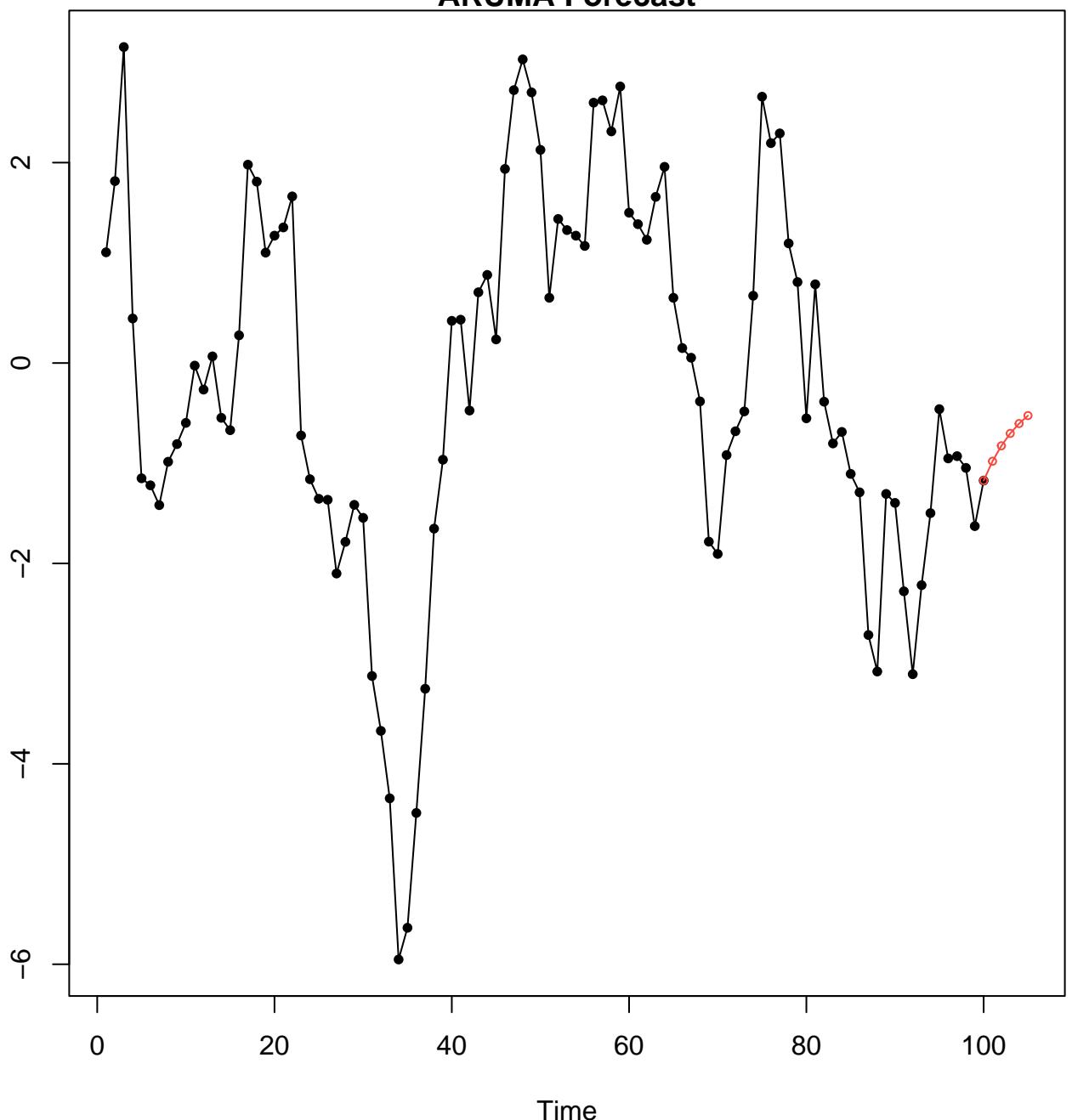




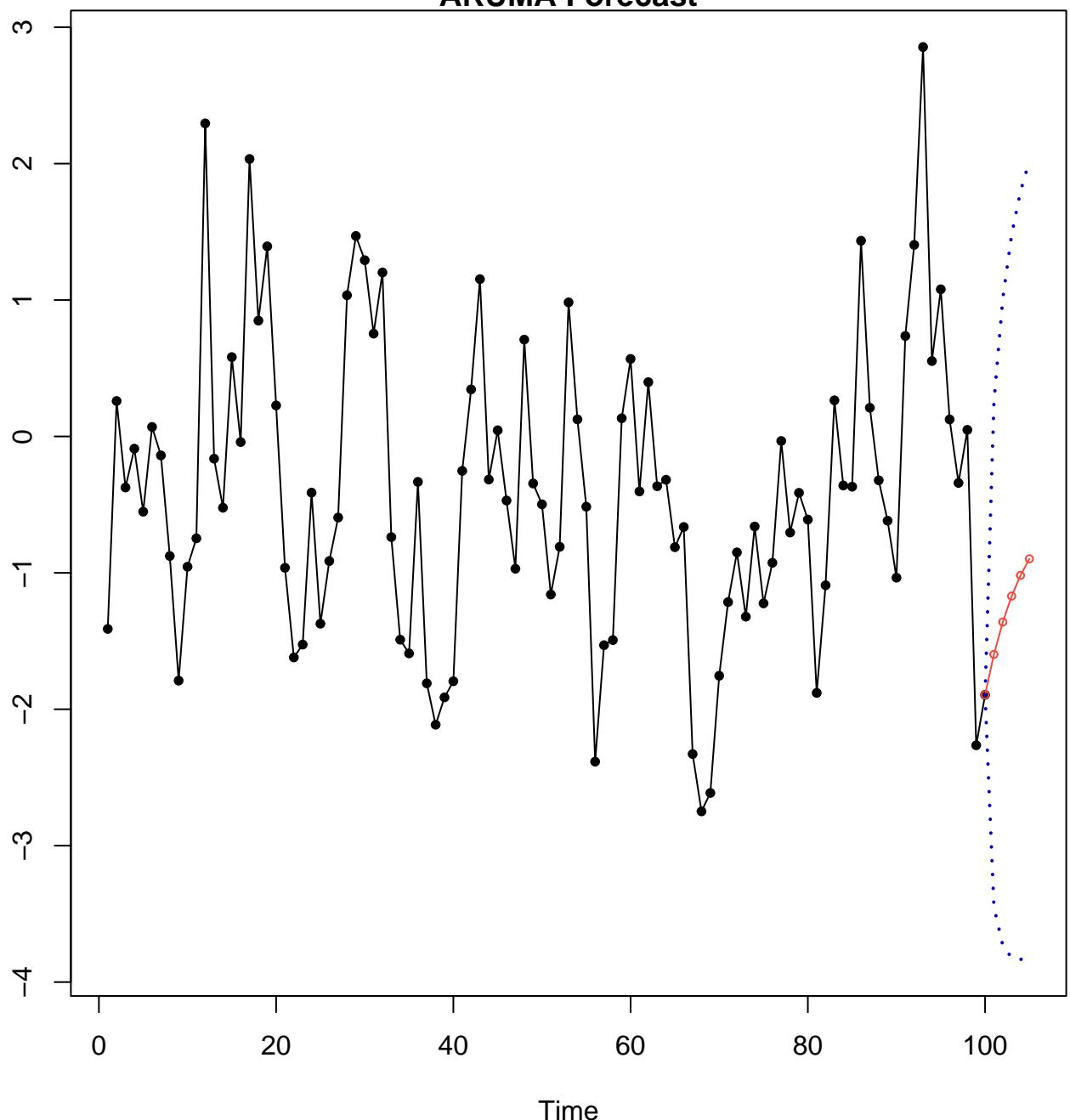
# ARUMA Forecast



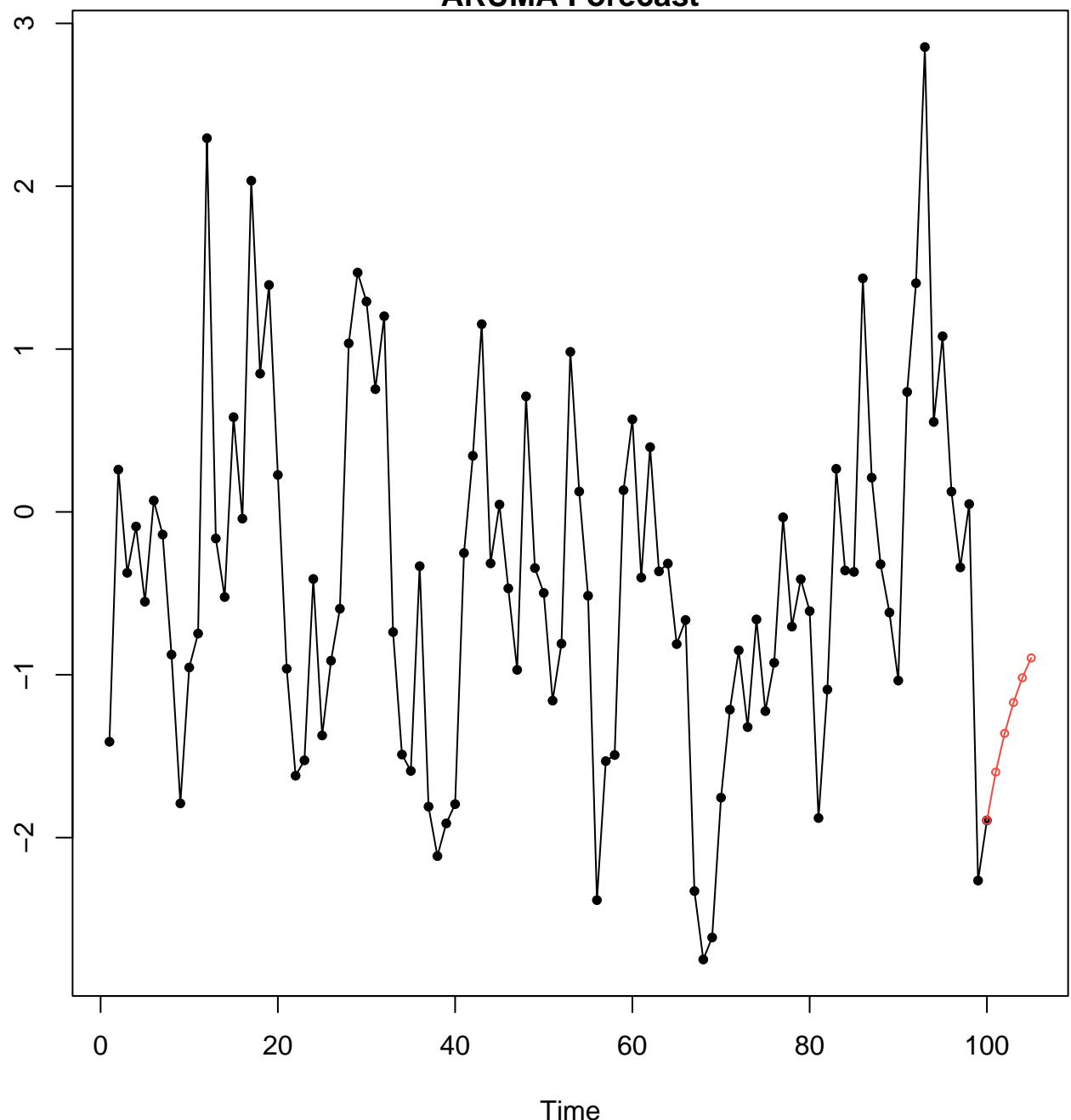
# ARUMA Forecast

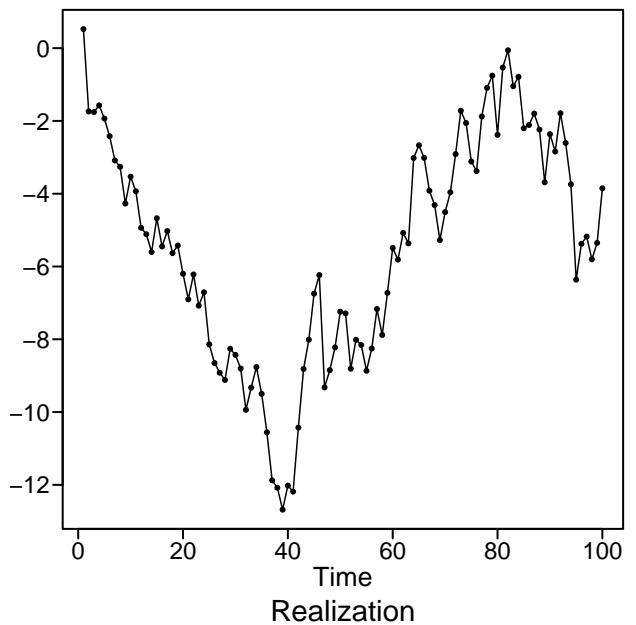


# ARUMA Forecast

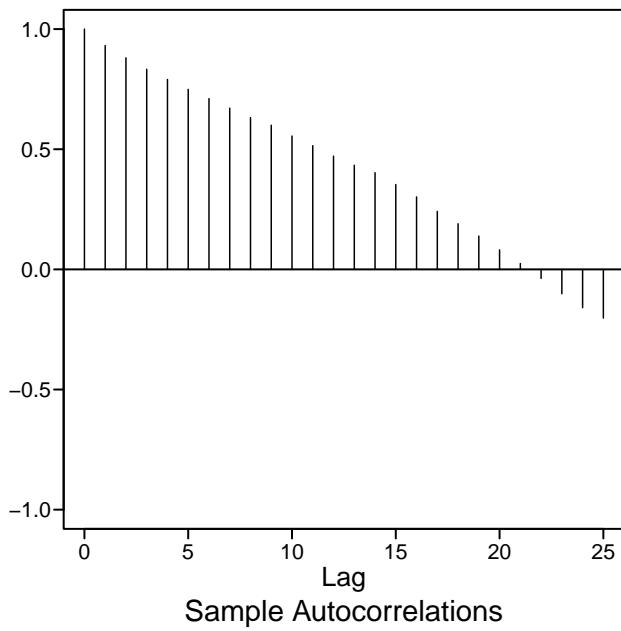


# ARUMA Forecast

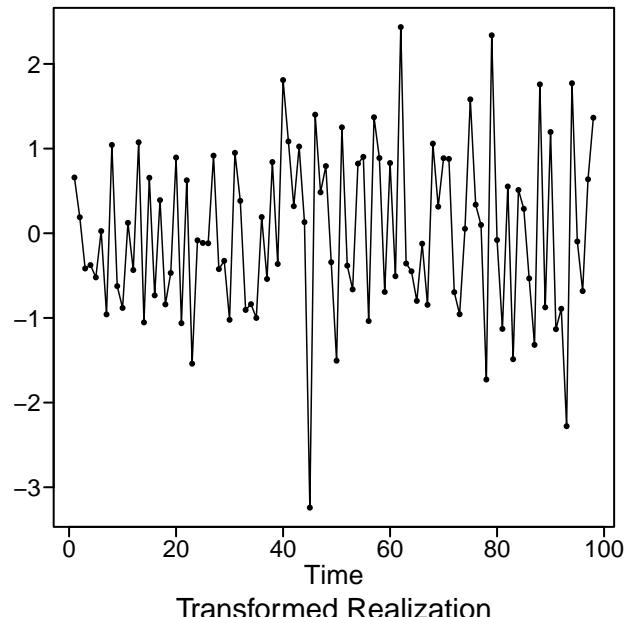




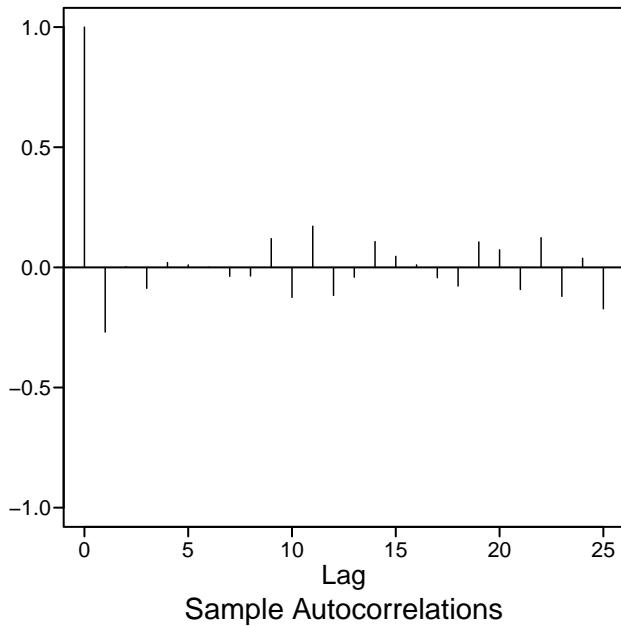
Time  
Realization



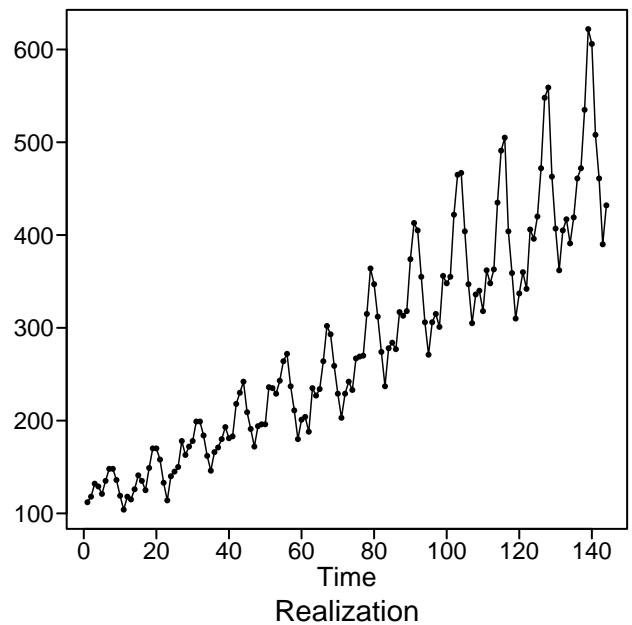
Lag  
Sample Autocorrelations



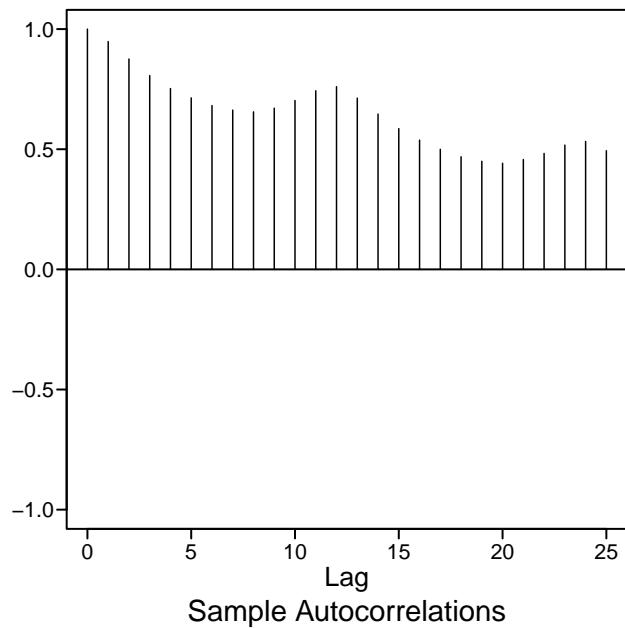
Time  
Transformed Realization



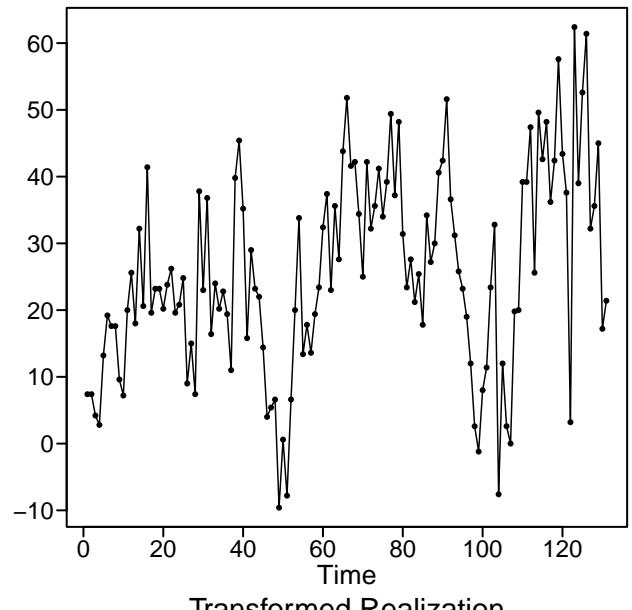
Lag  
Sample Autocorrelations



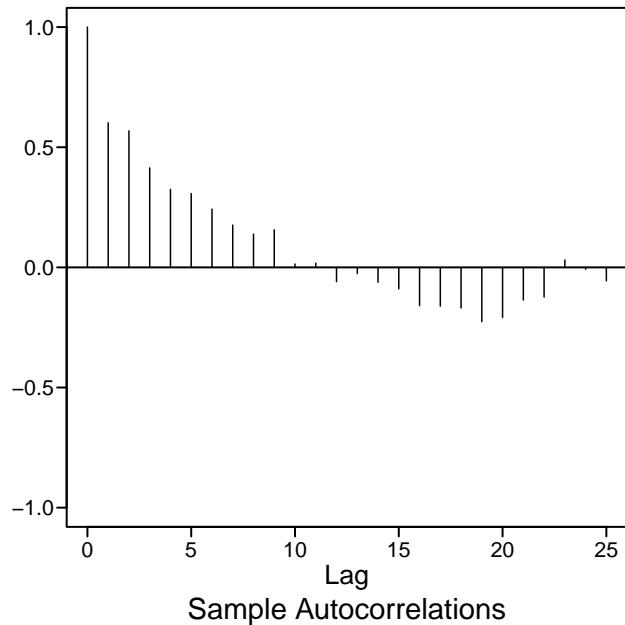
Time  
Realization



Lag  
Sample Autocorrelations

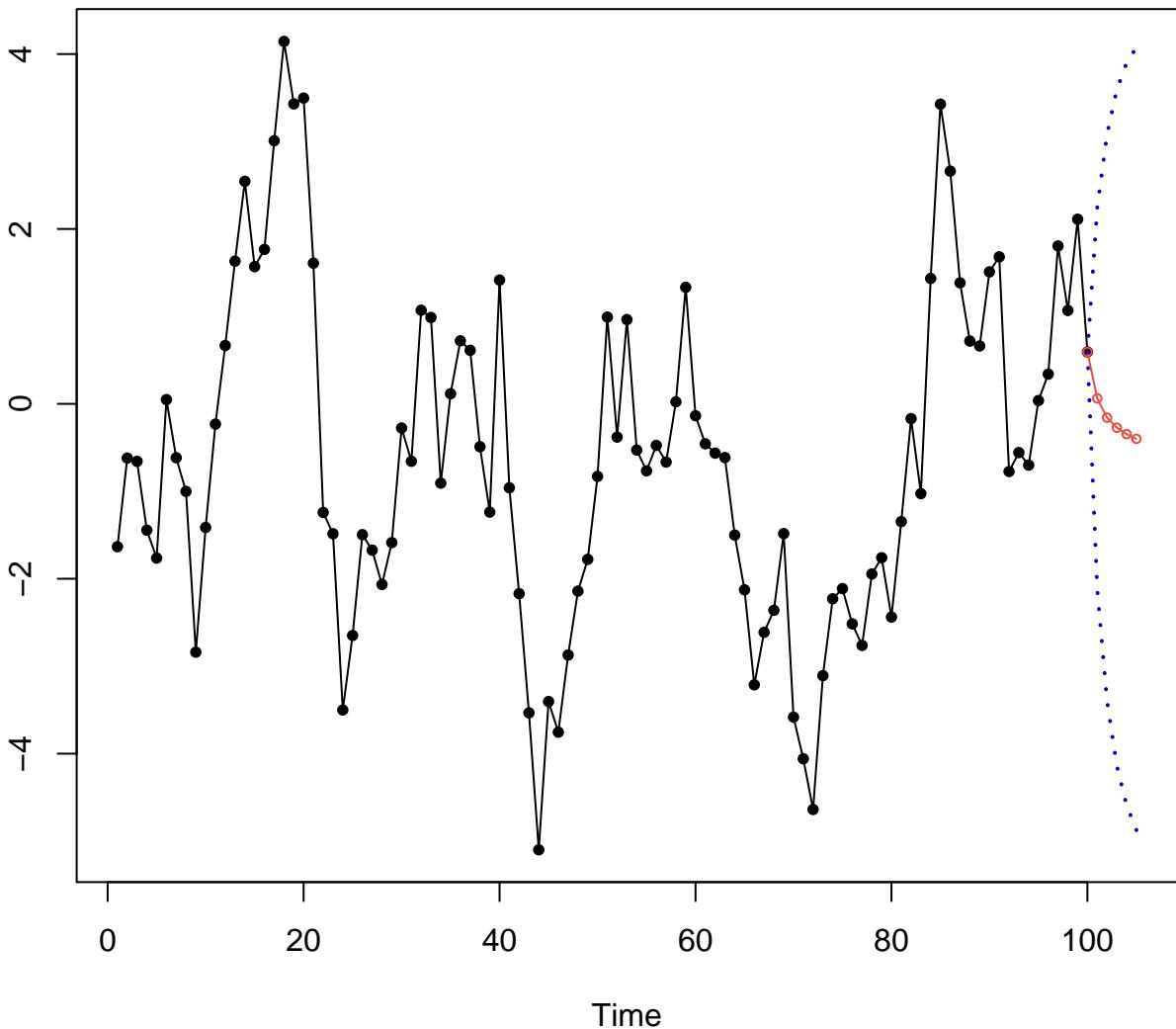


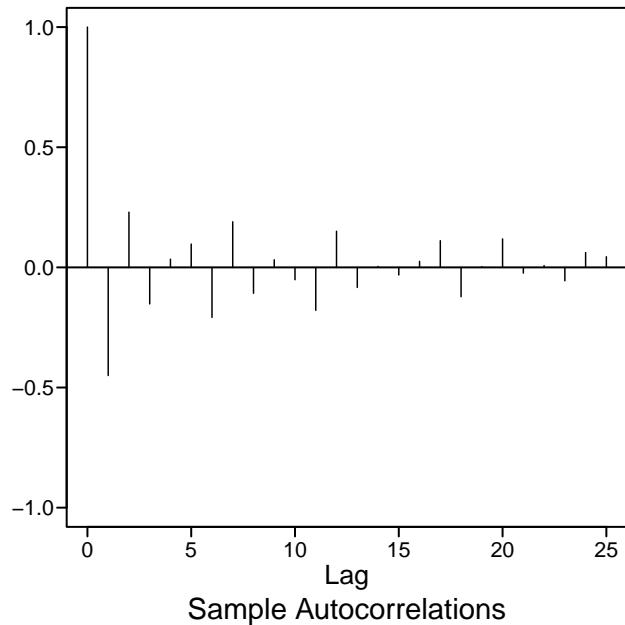
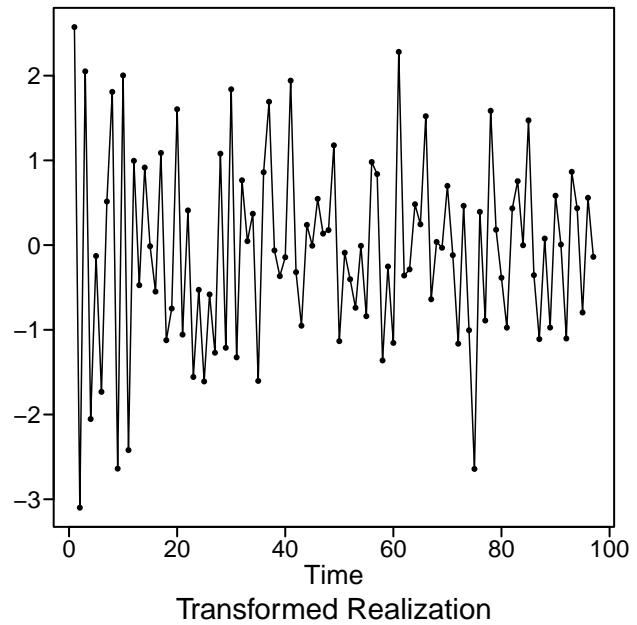
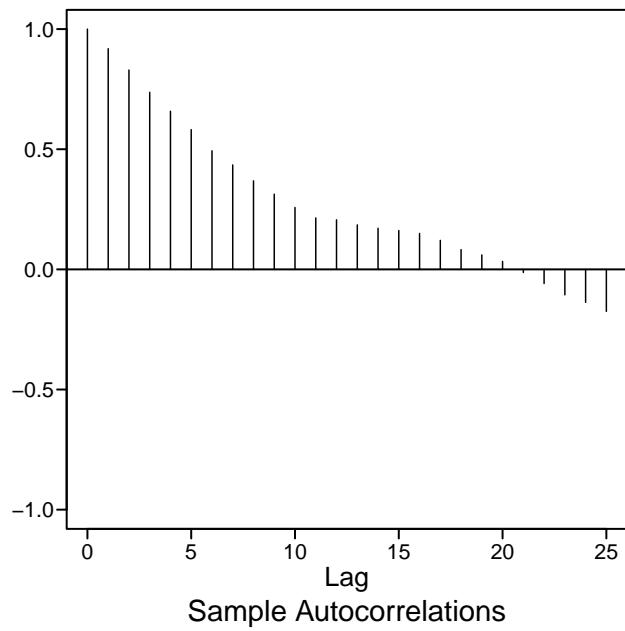
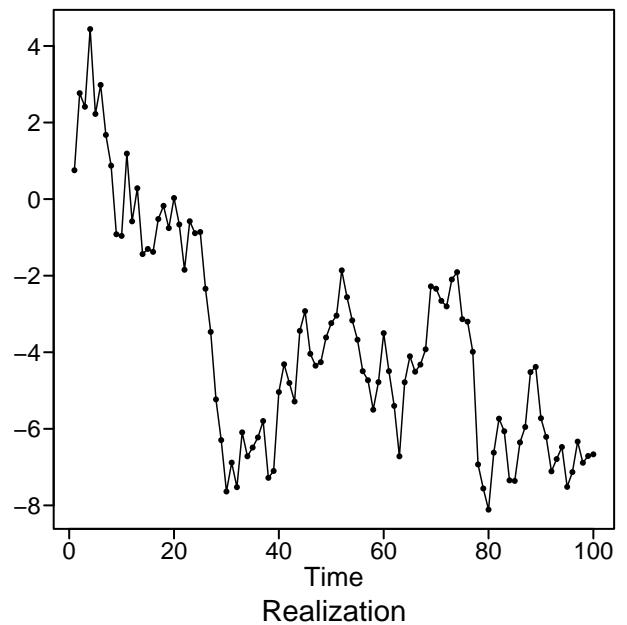
Time  
Transformed Realization



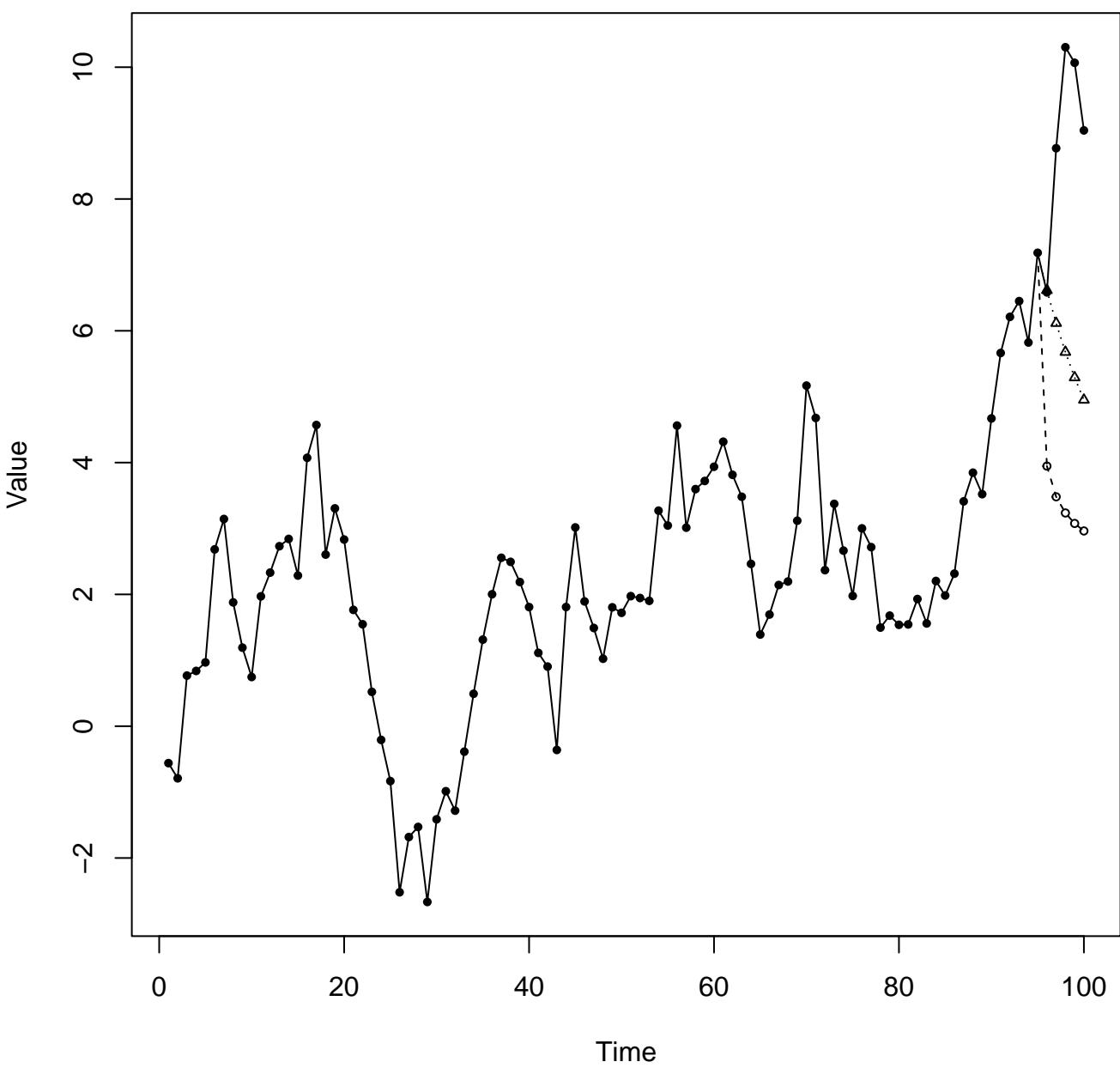
Lag  
Sample Autocorrelations

# ARUMA Forecast

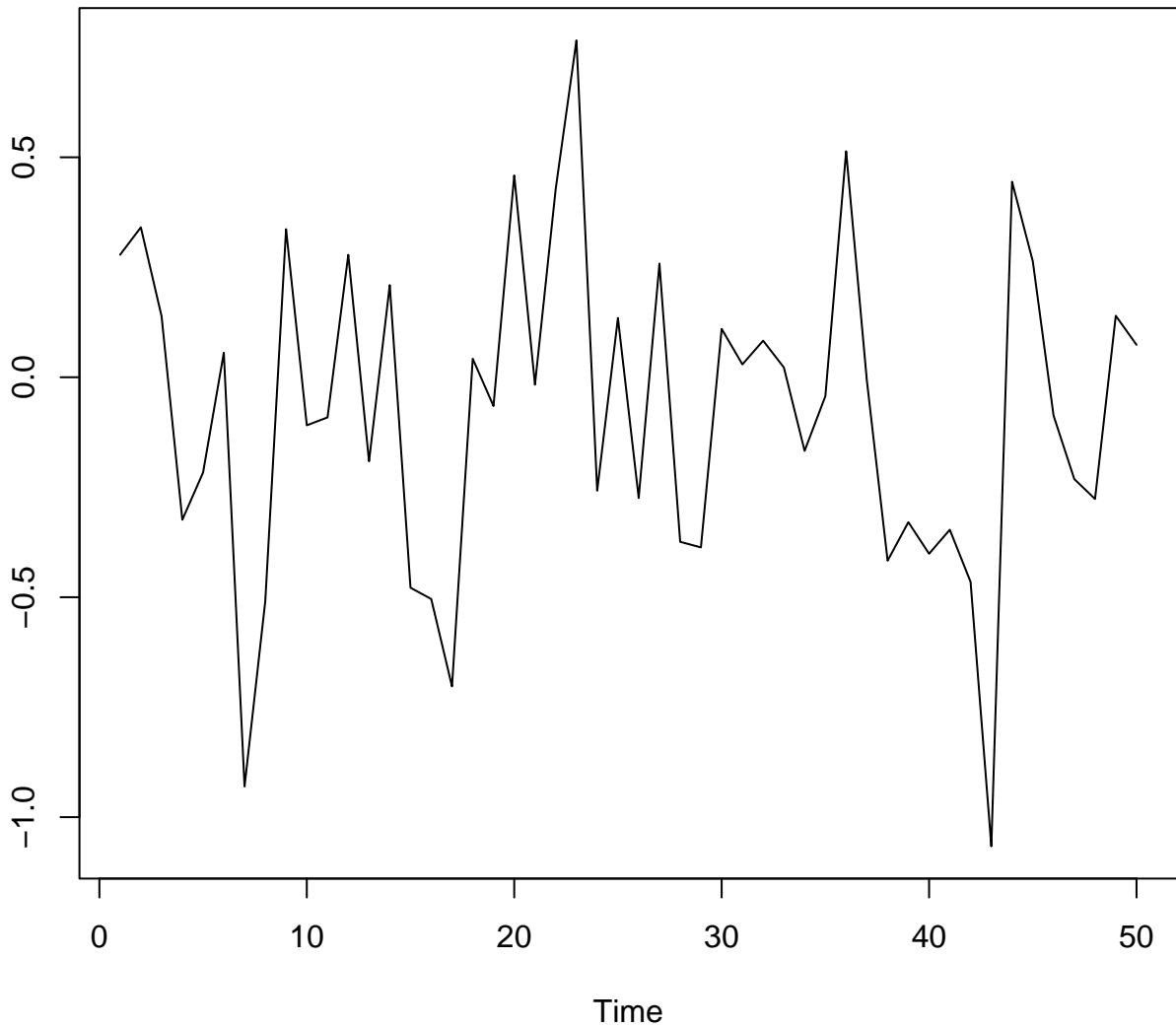




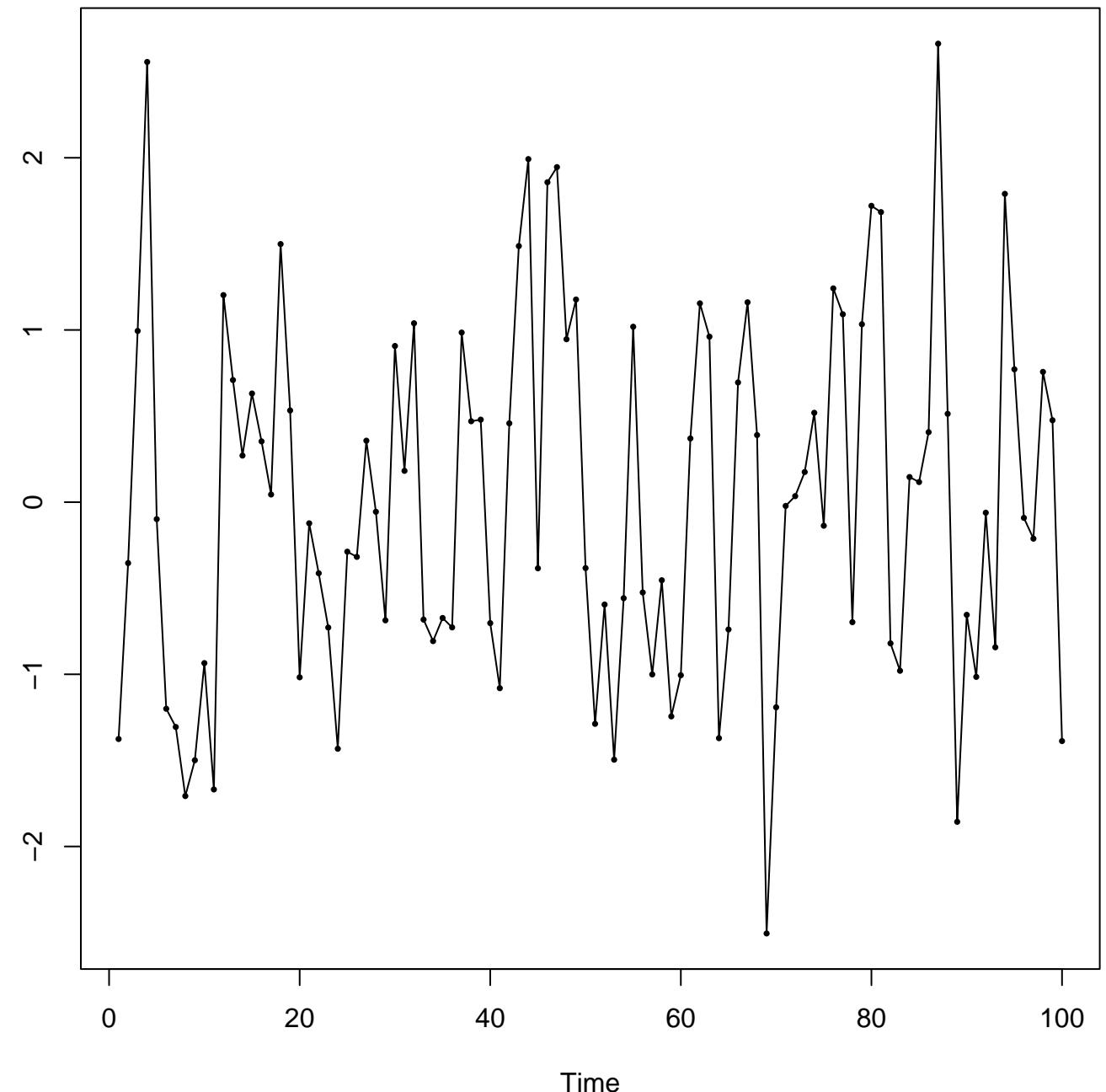
# Realization (Solid), FARMA Forecast (Dashed), AR Forecast (Dotted)



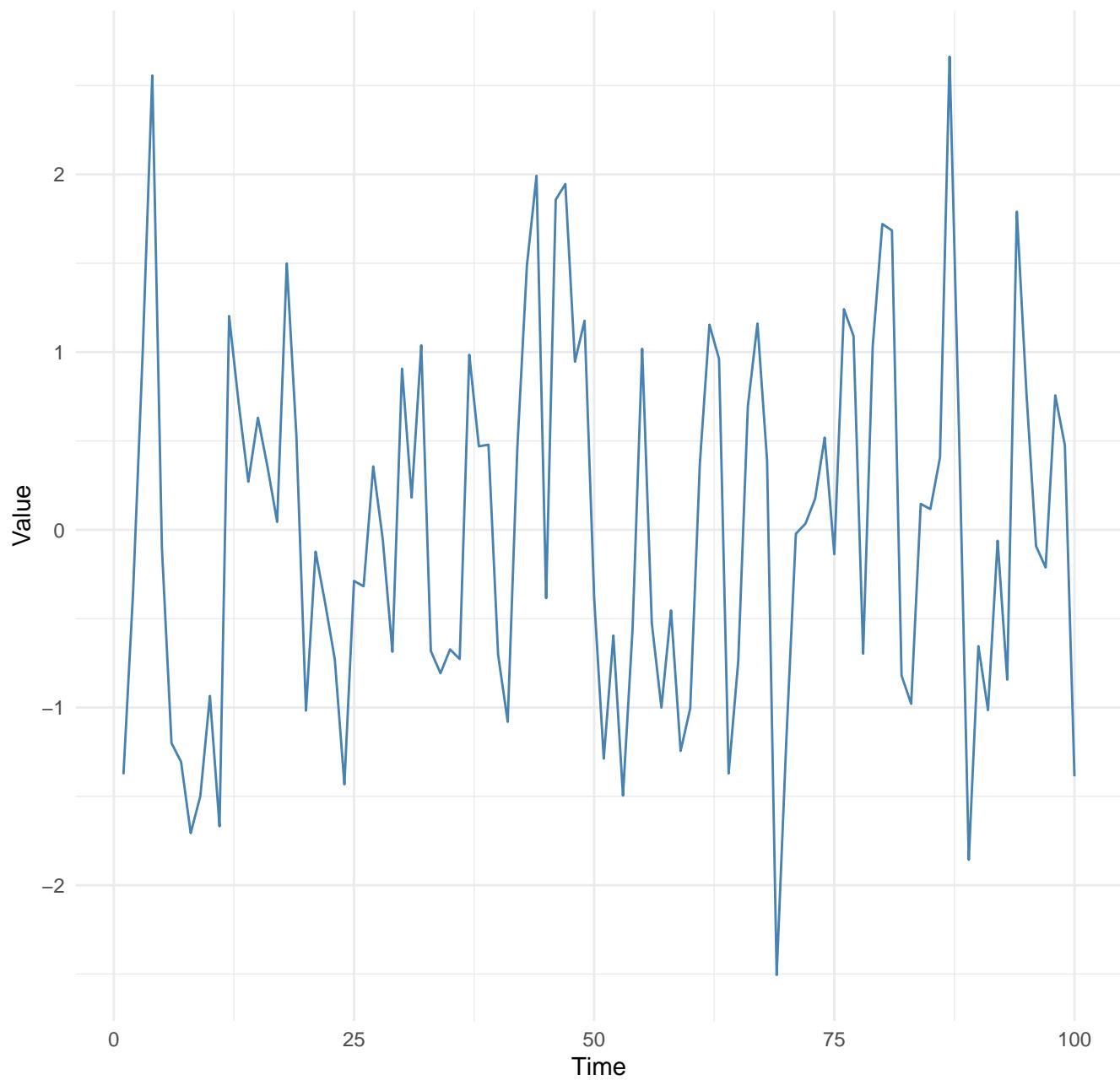
## ARCH Process



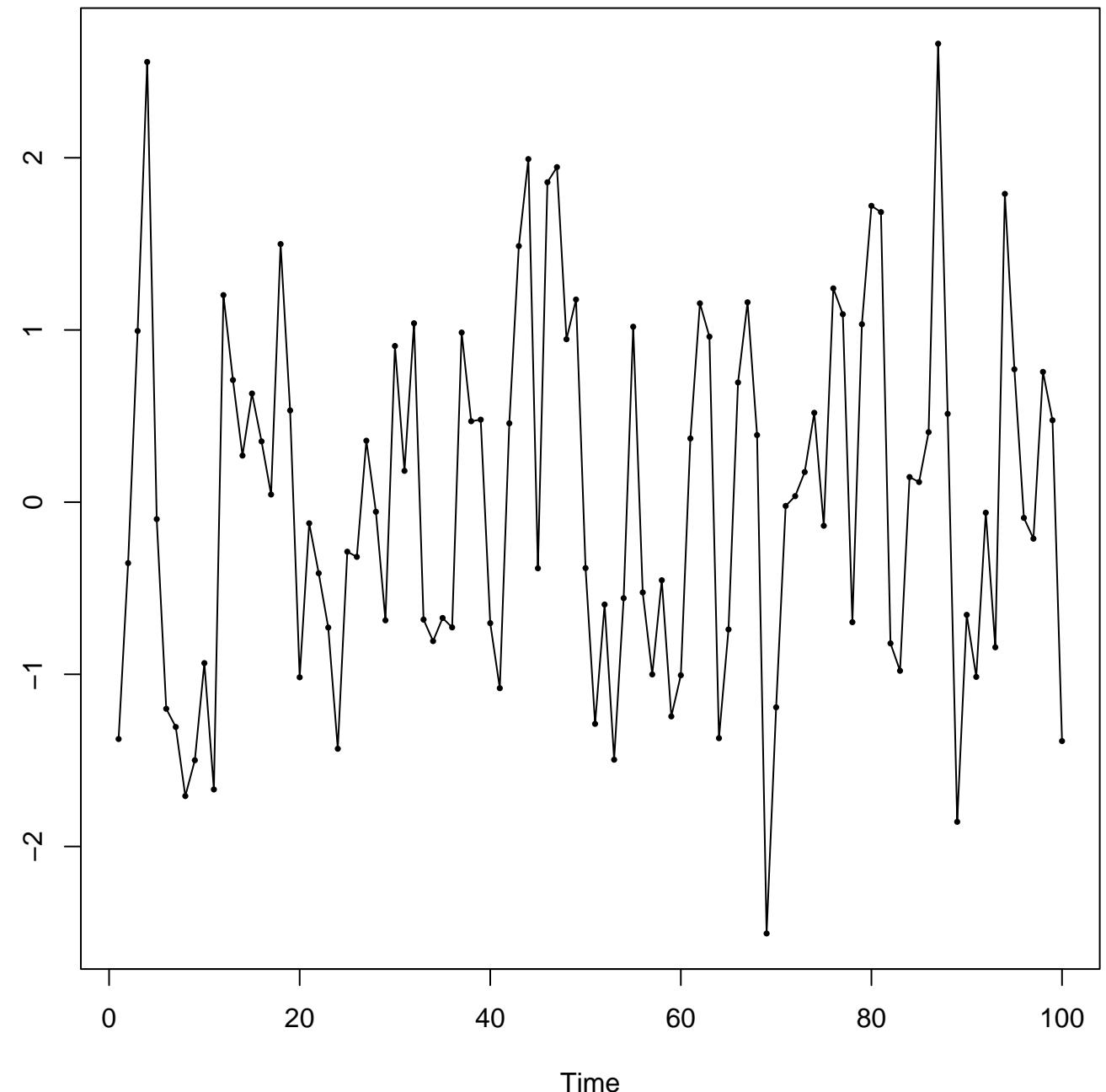
# ARUMA Realization



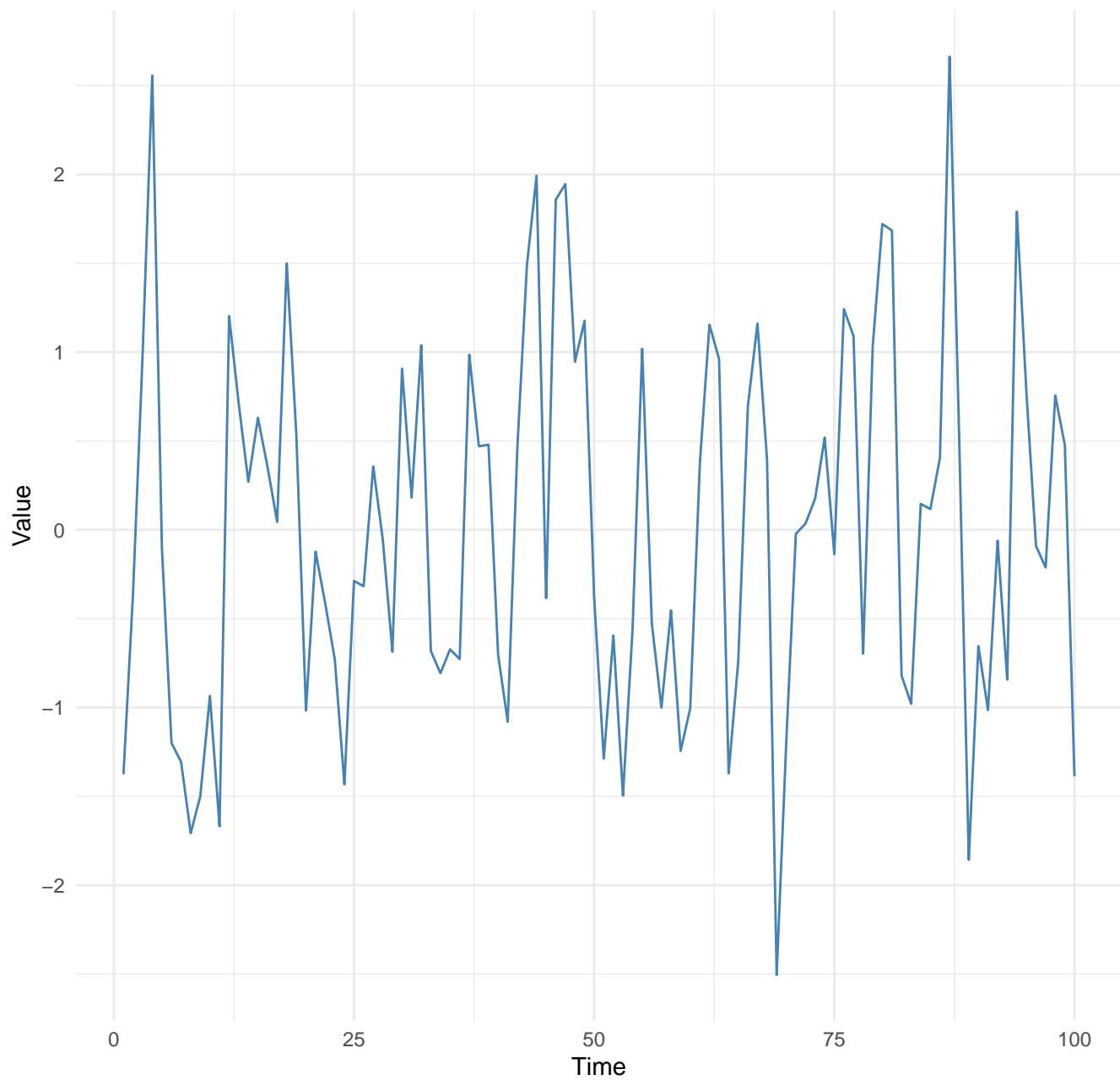
# ARUMA Realization



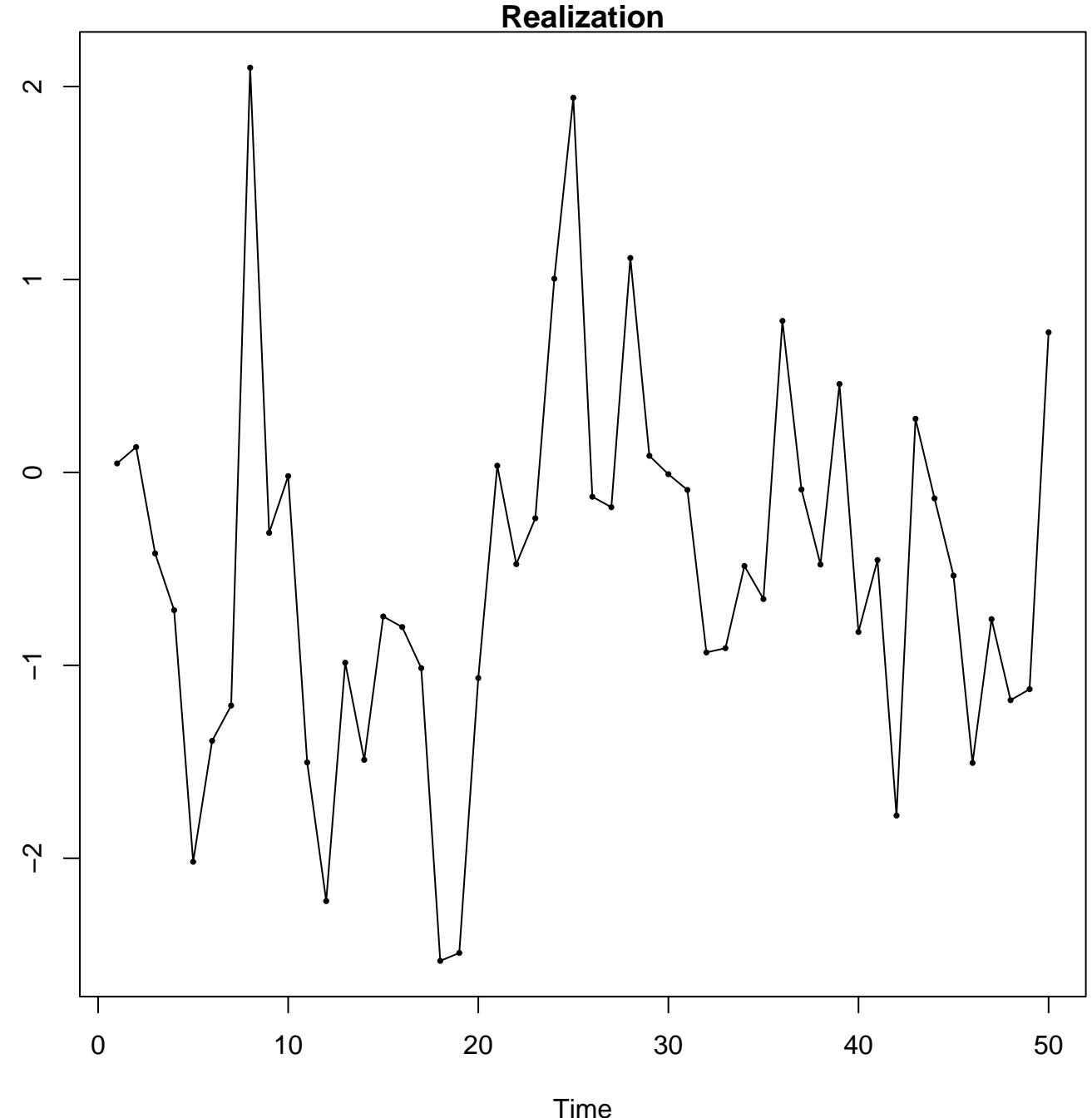
# ARUMA Realization



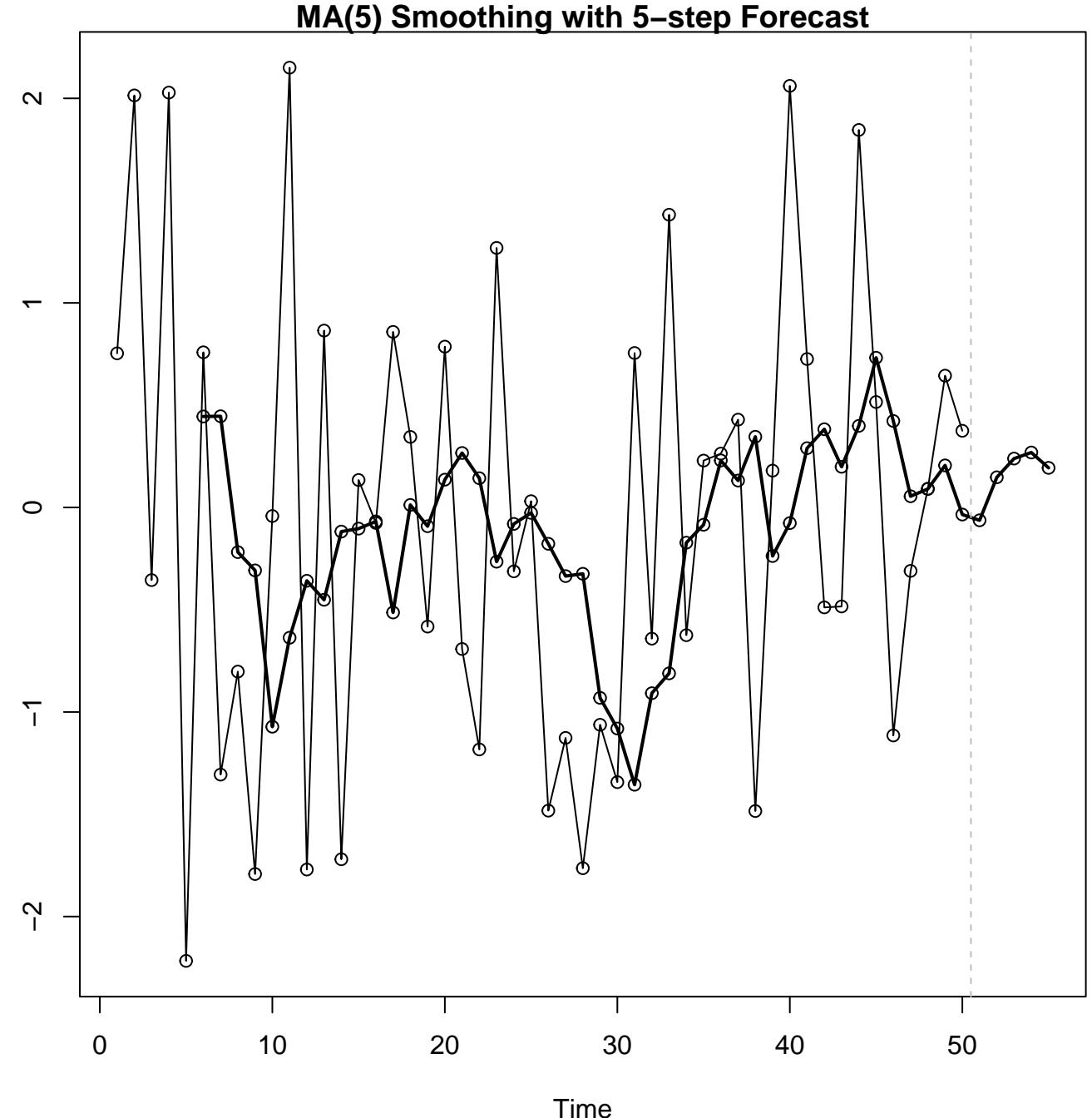
# ARUMA Realization



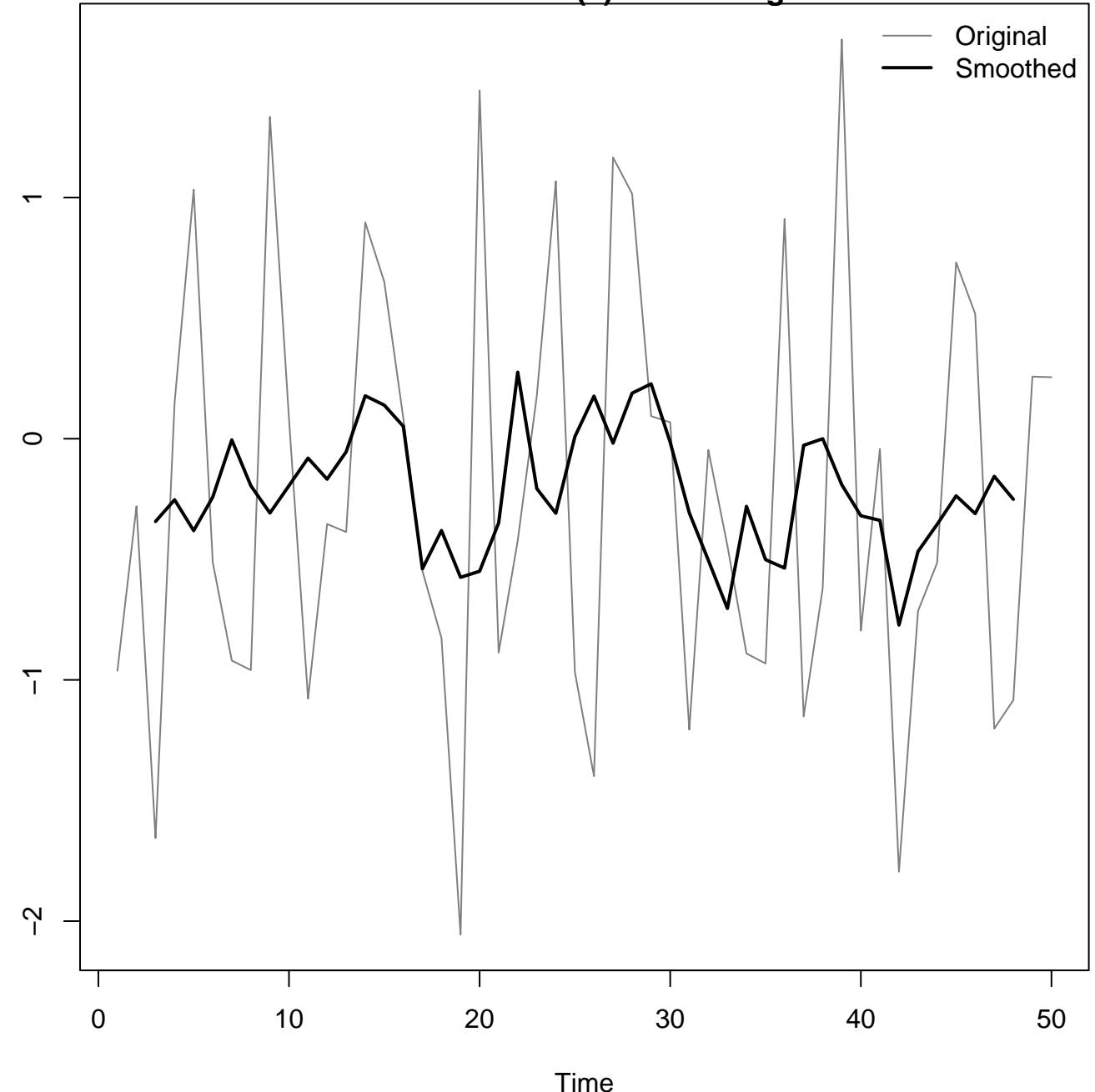
# Realization

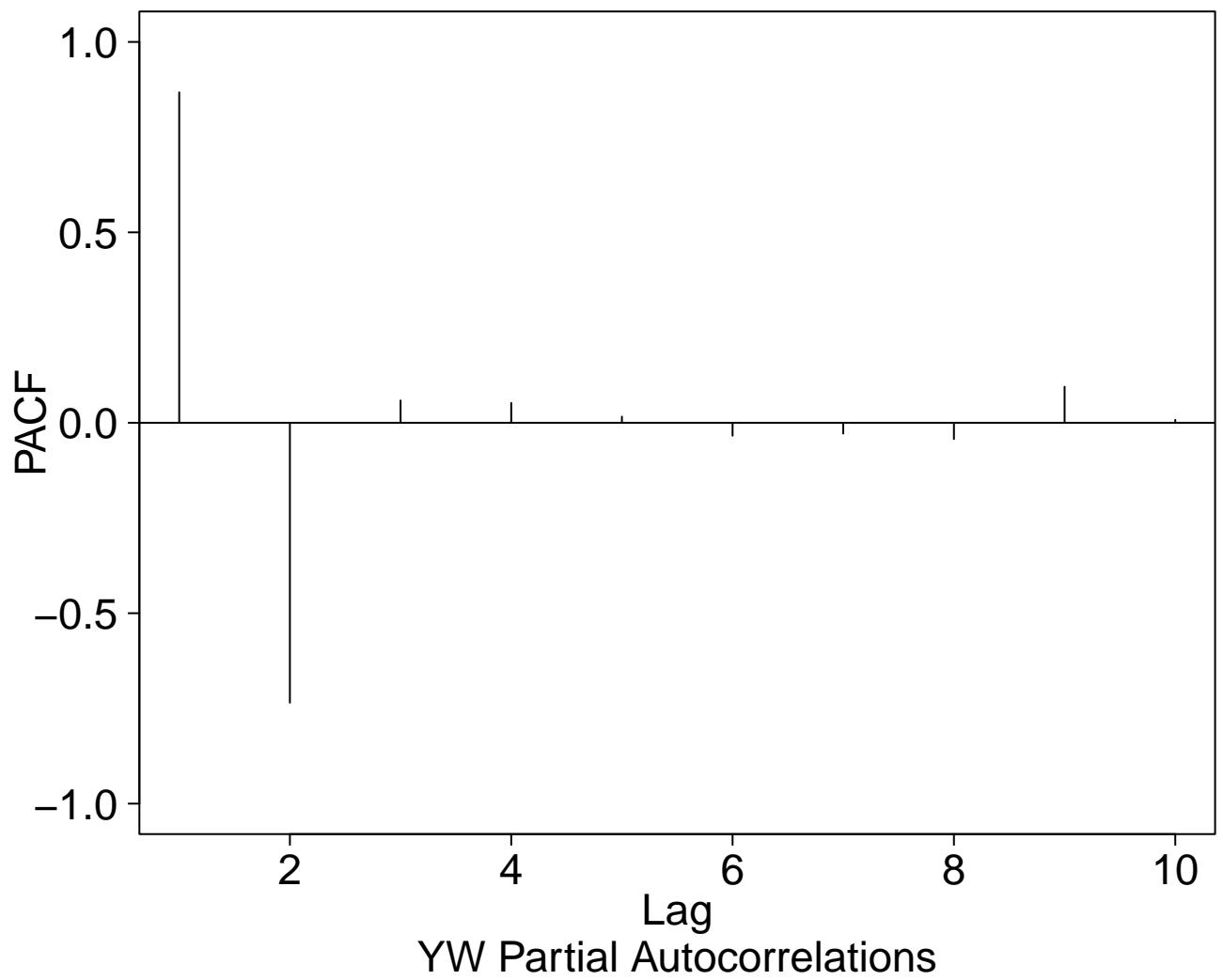


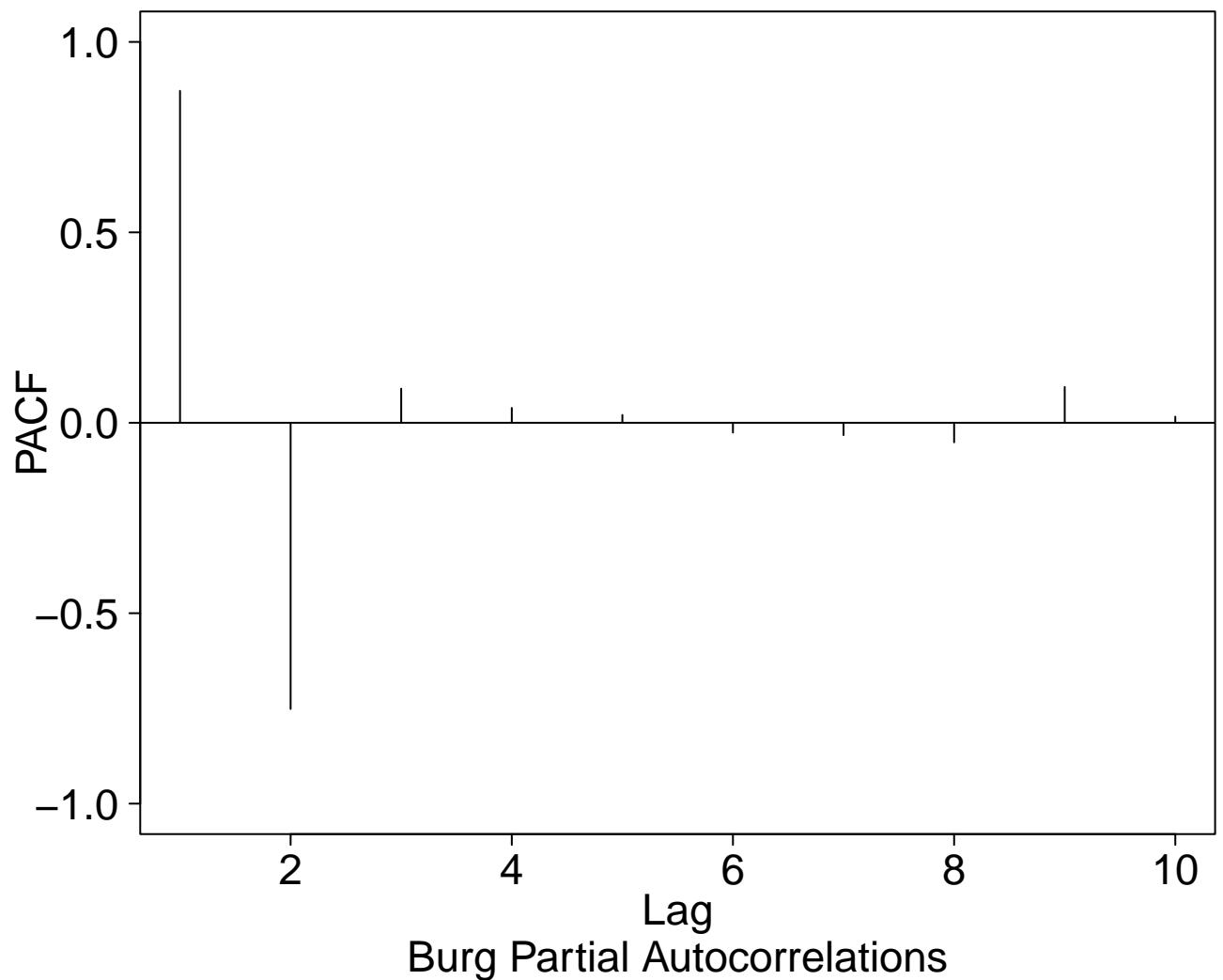
## MA(5) Smoothing with 5-step Forecast

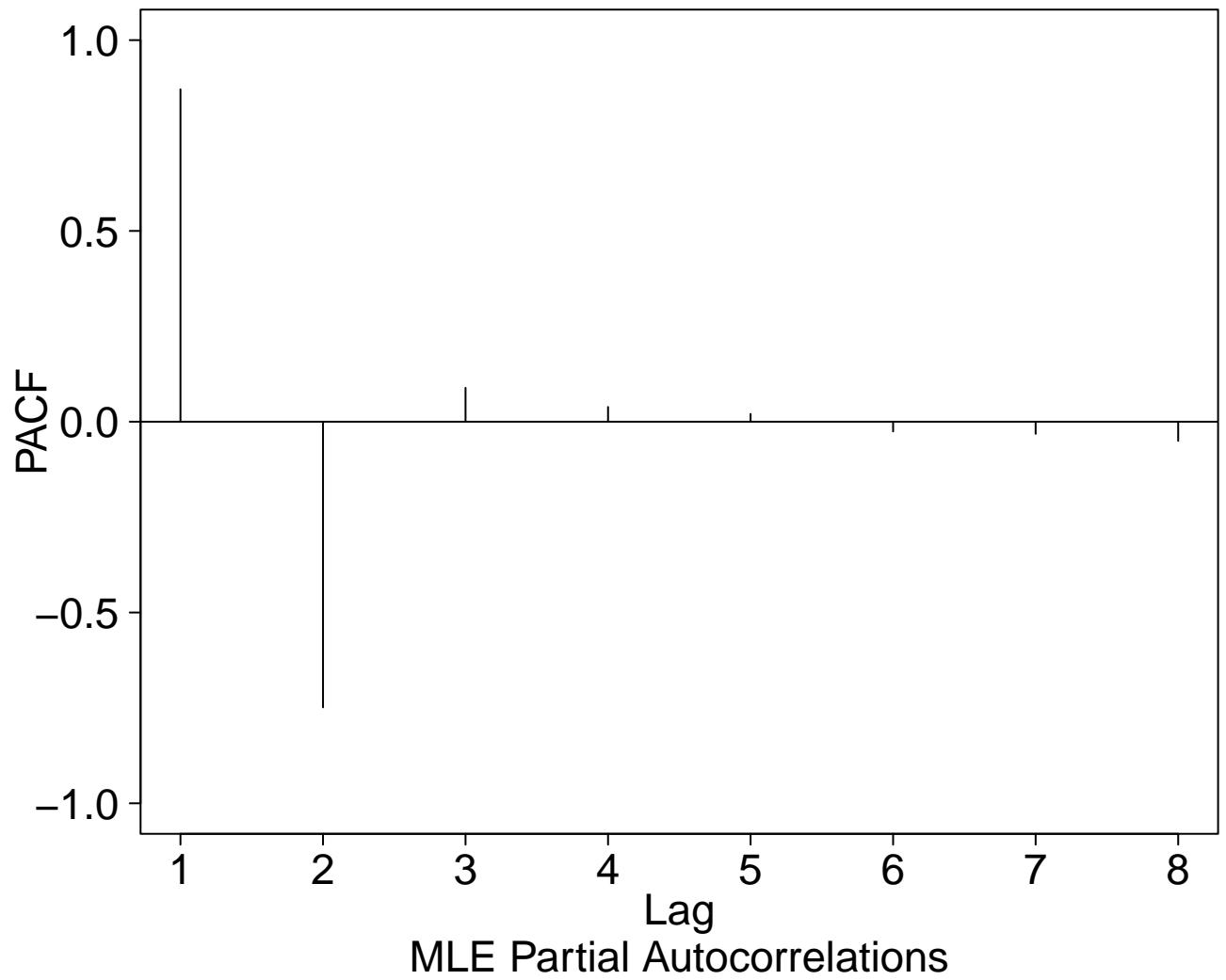


## Centered MA(5) Smoothing

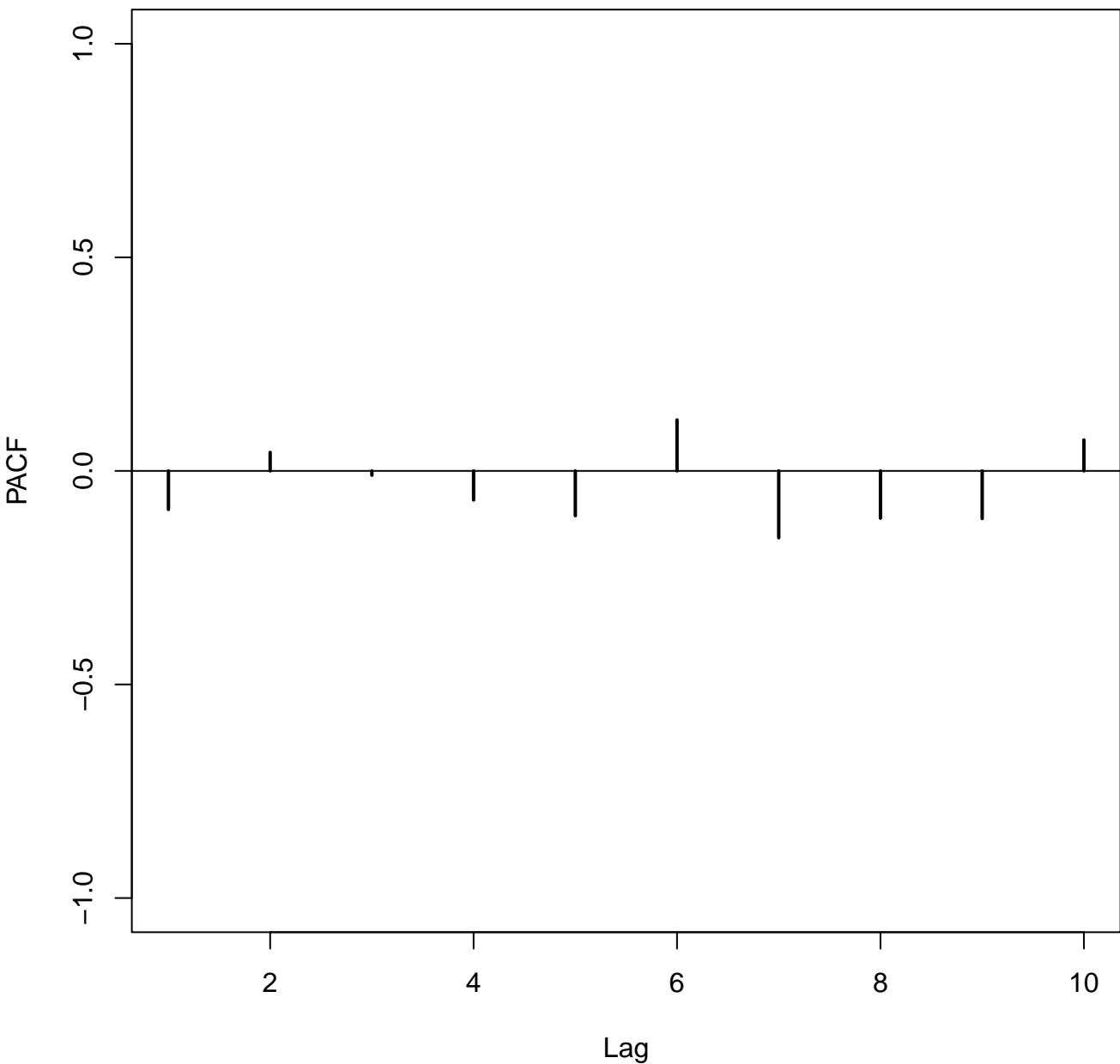




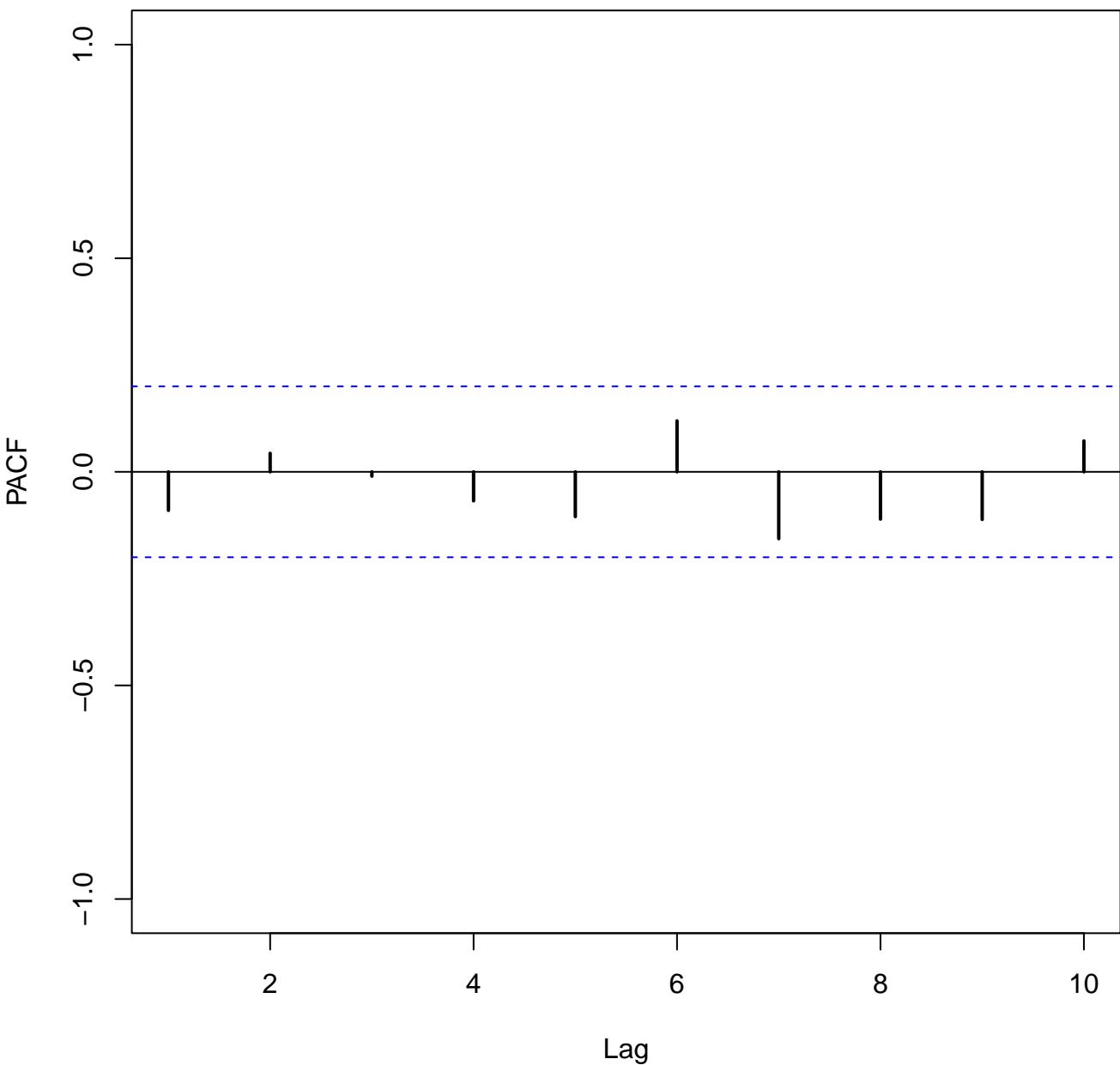




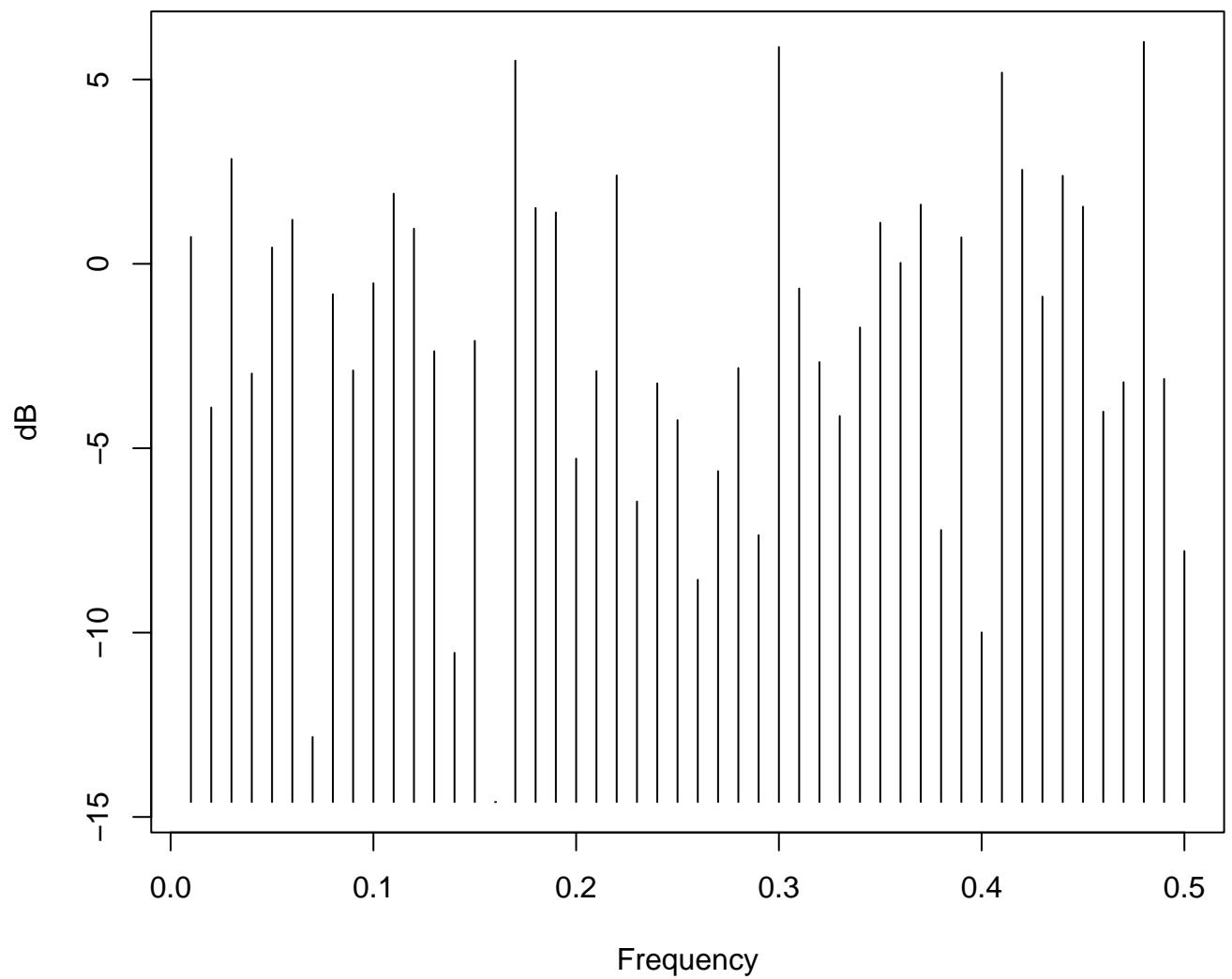
## Yule–Walker Partial Autocorrelations



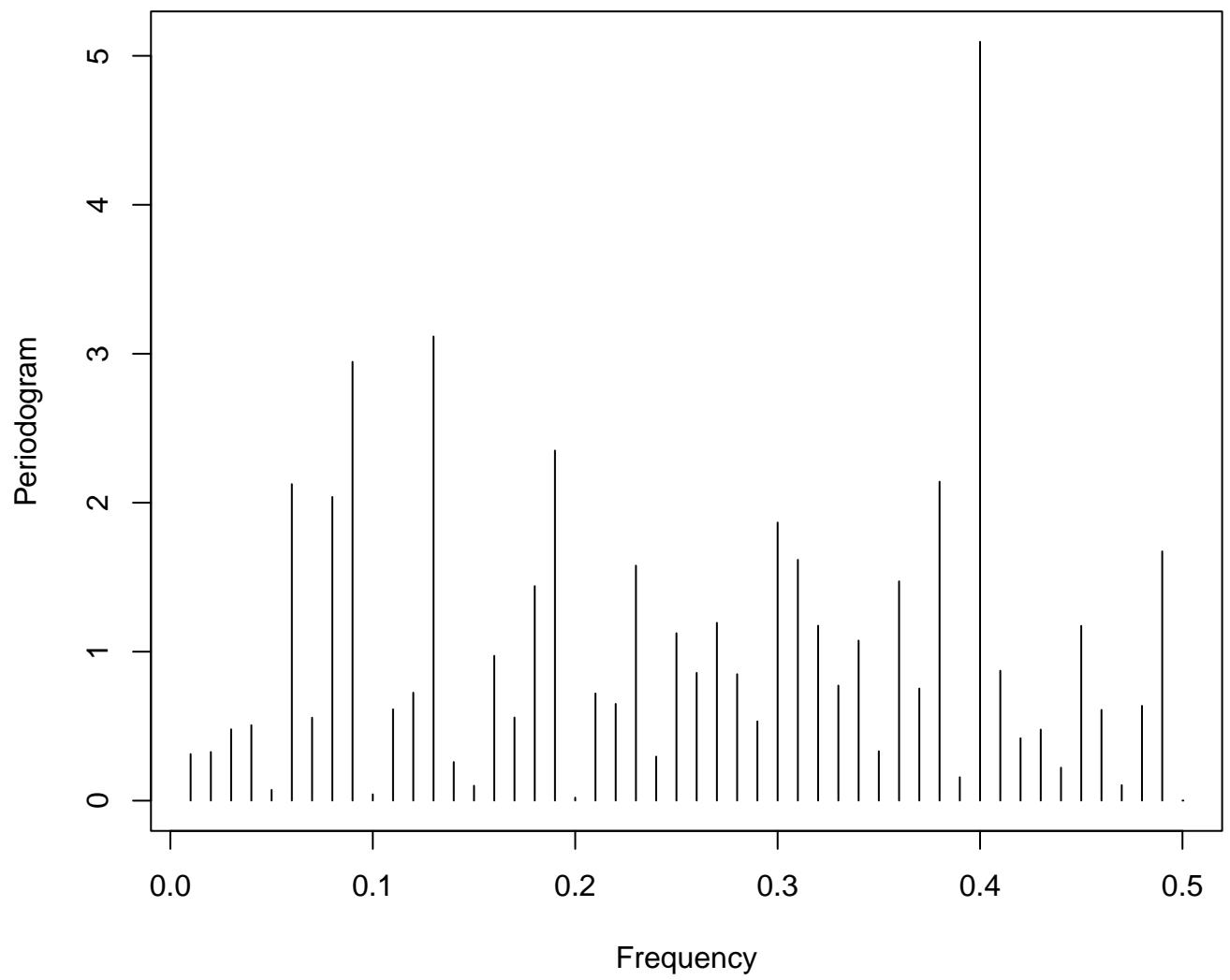
## Yule–Walker Partial Autocorrelations

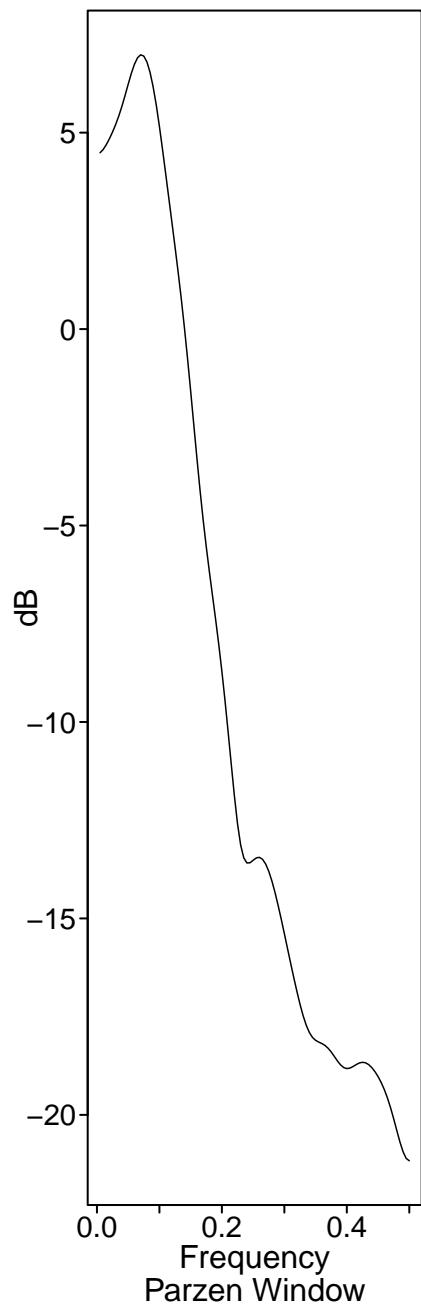
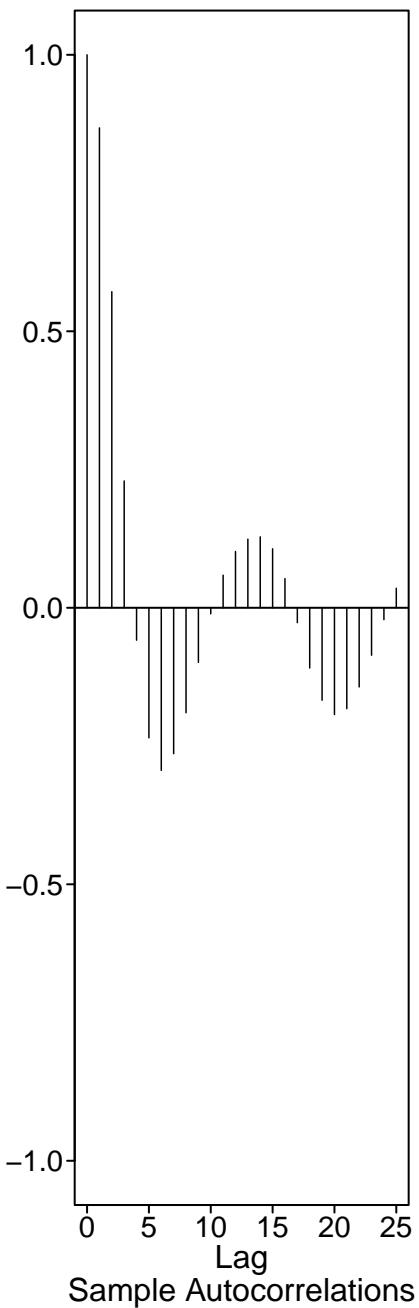
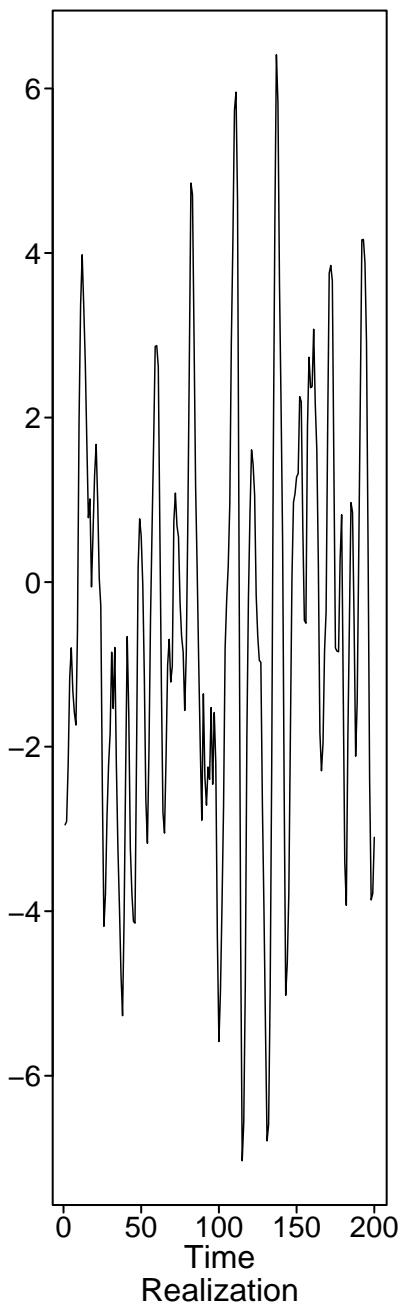


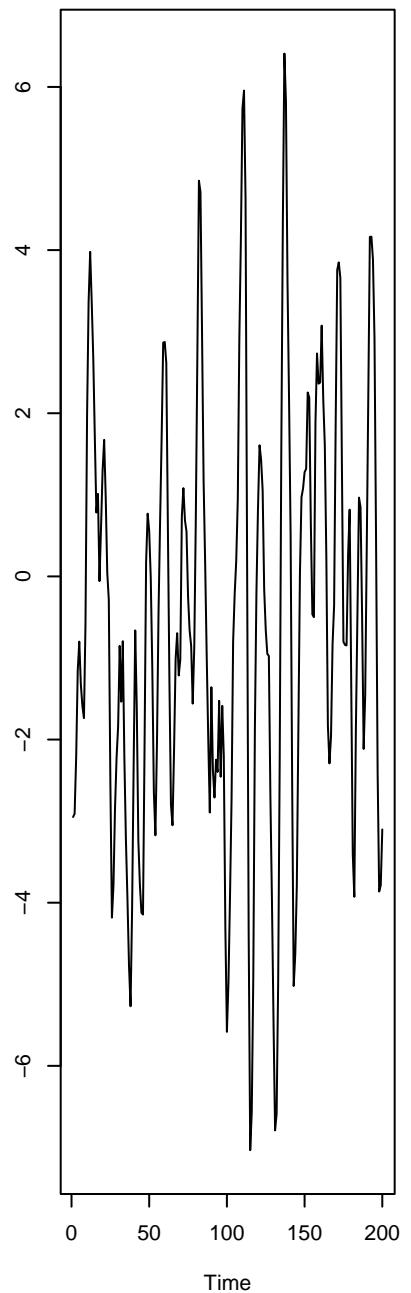
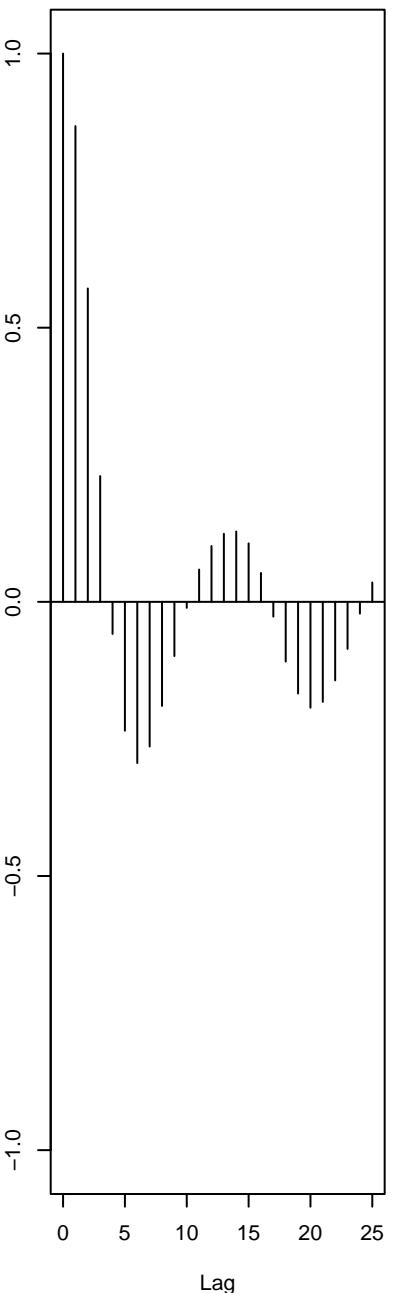
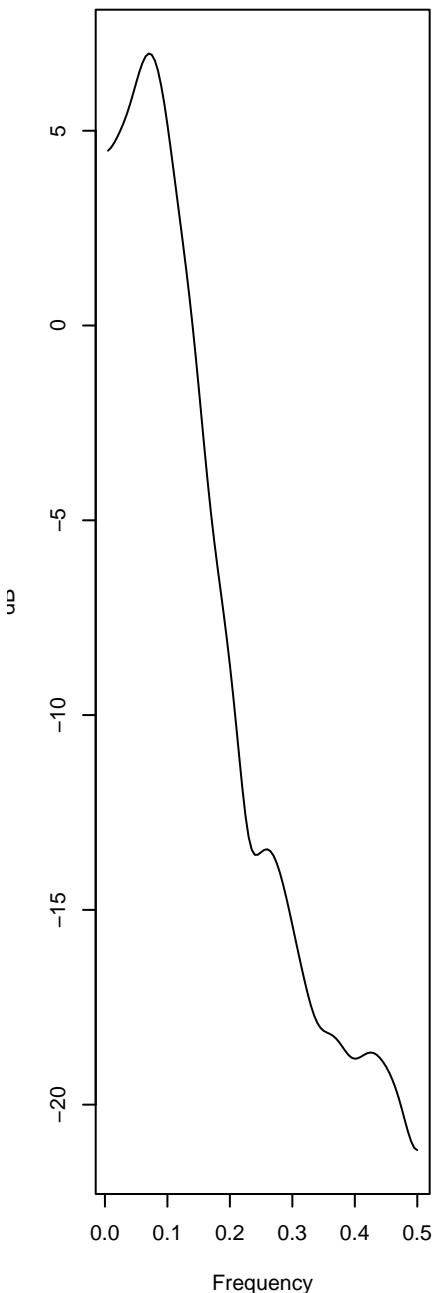
## Periodogram

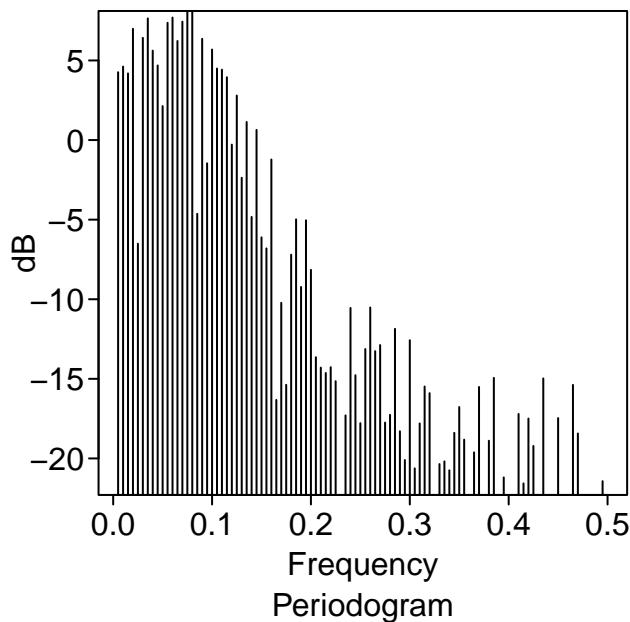
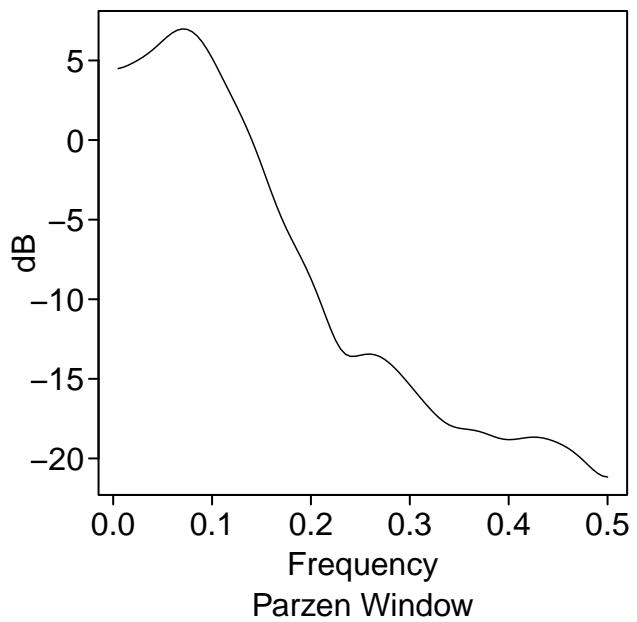
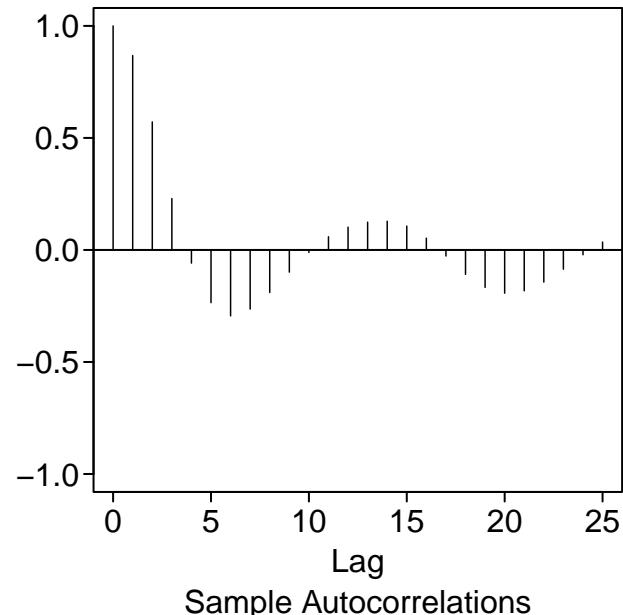
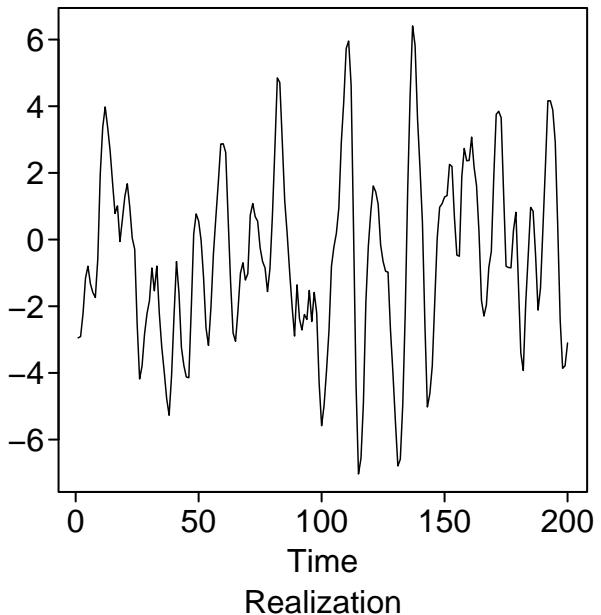


## Periodogram

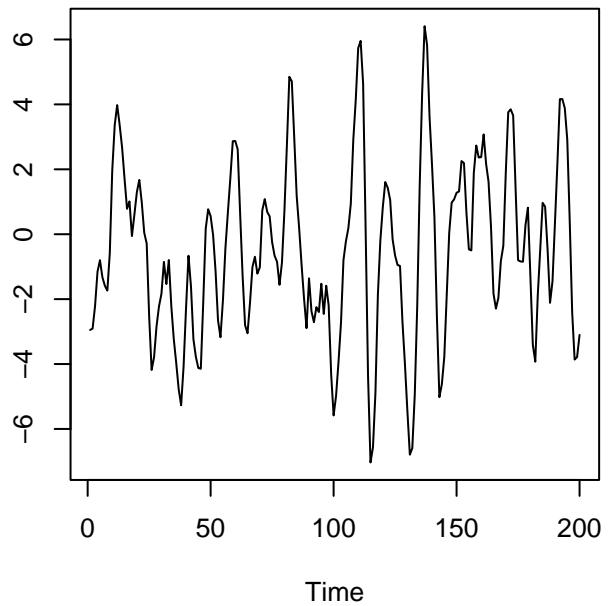




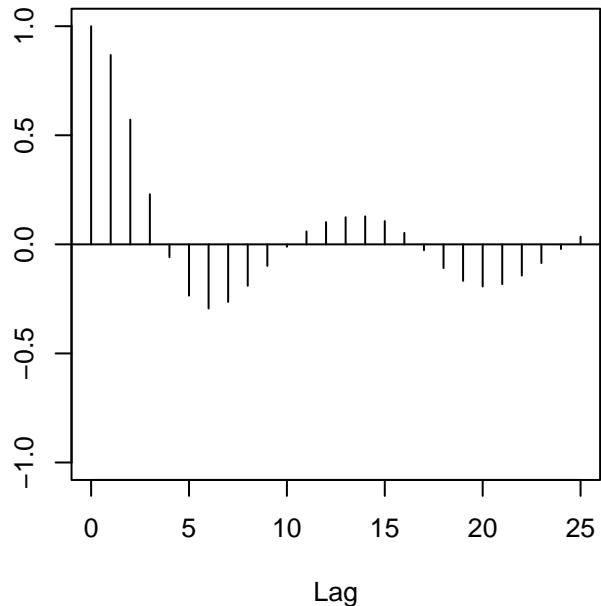
**Realization****Sample Autocorrelations****Parzen Window**



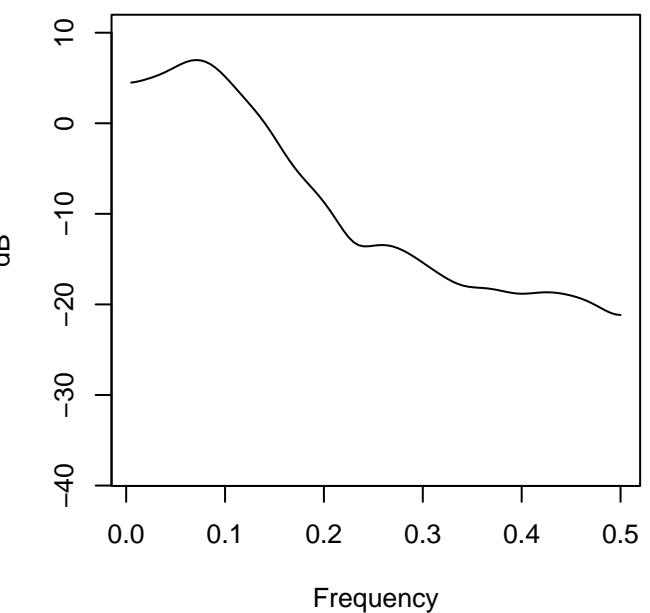
### Realization



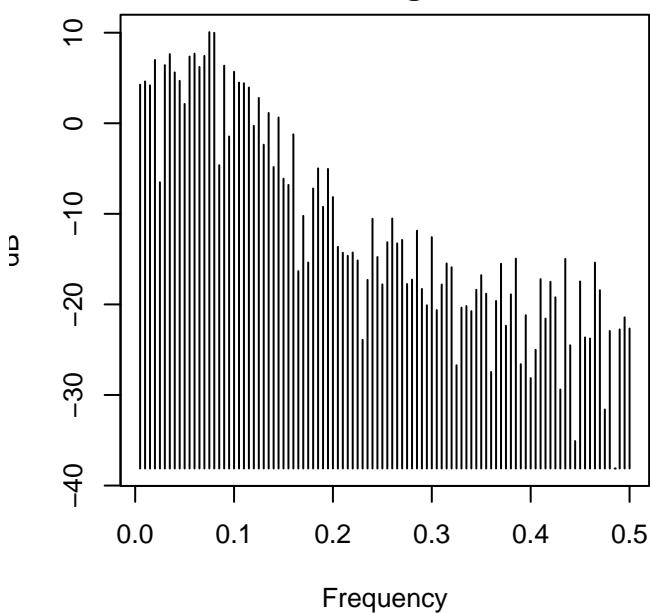
### Sample Autocorrelations

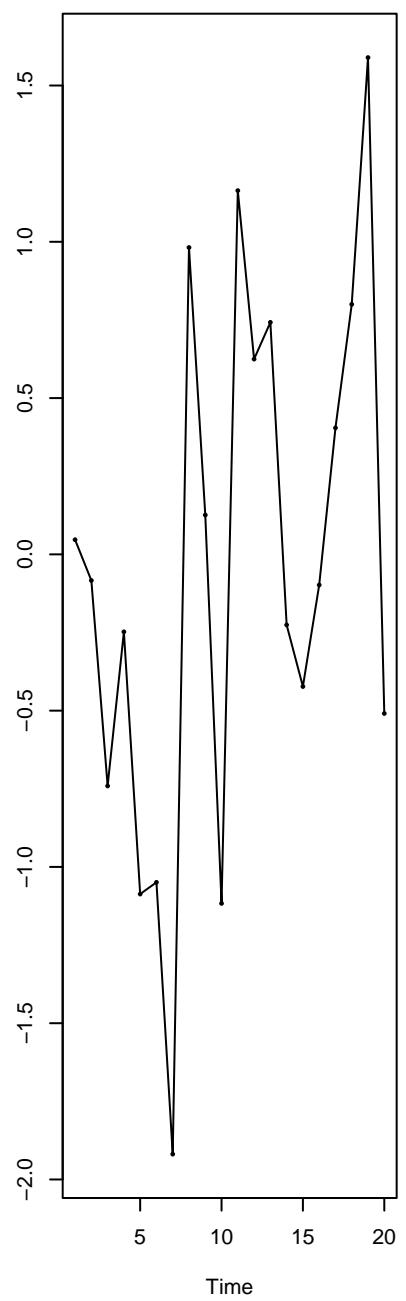
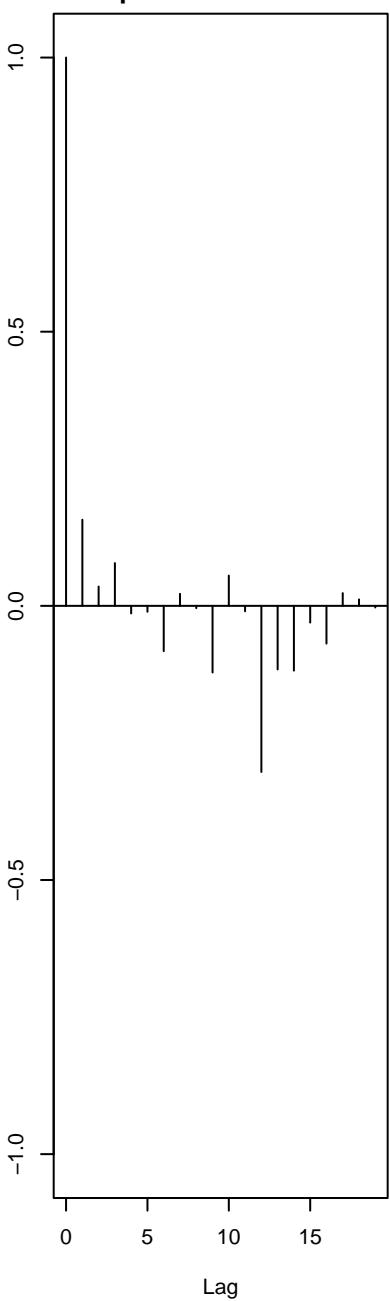
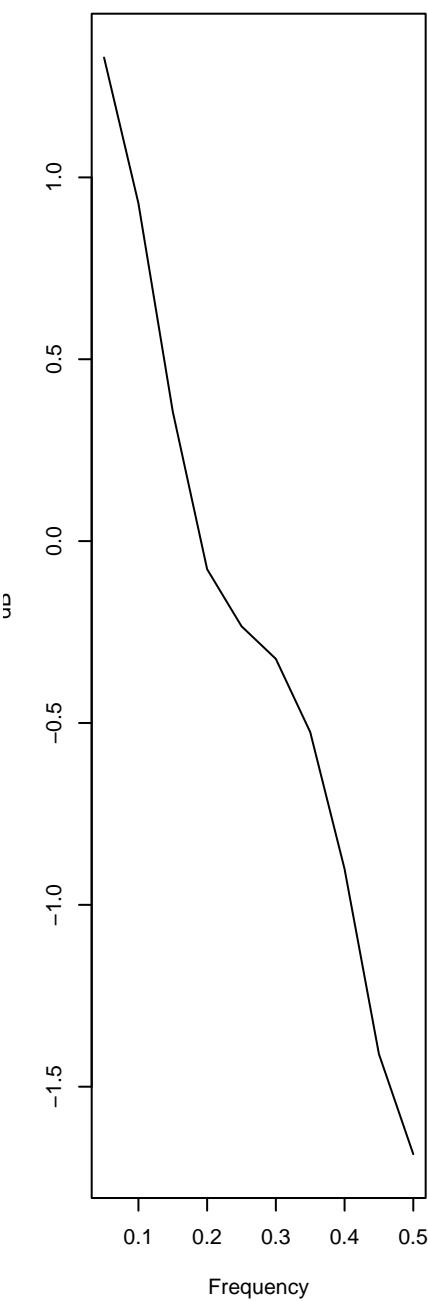


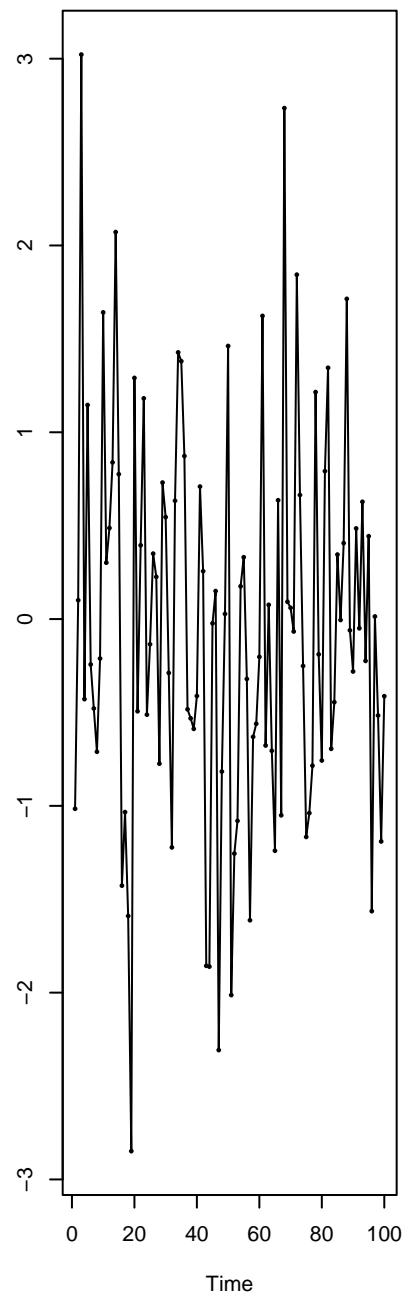
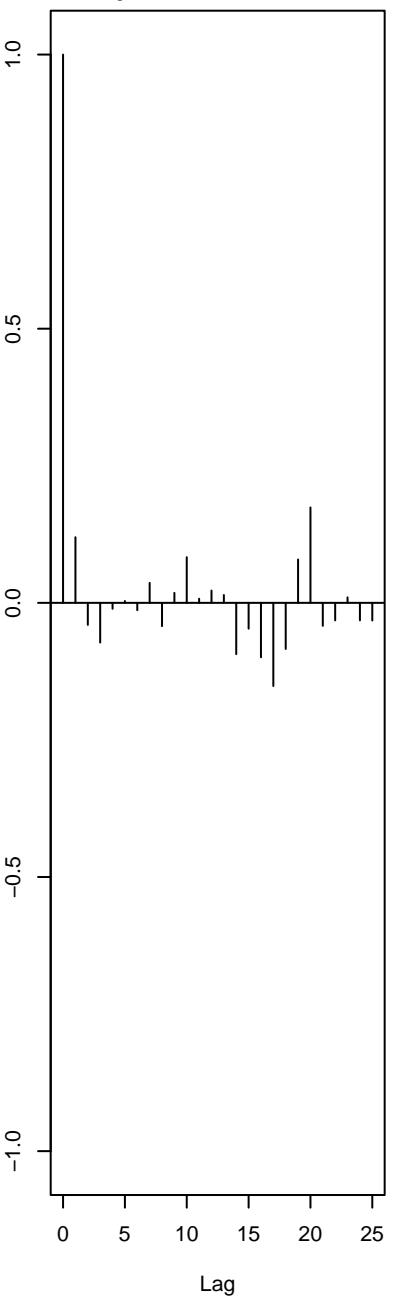
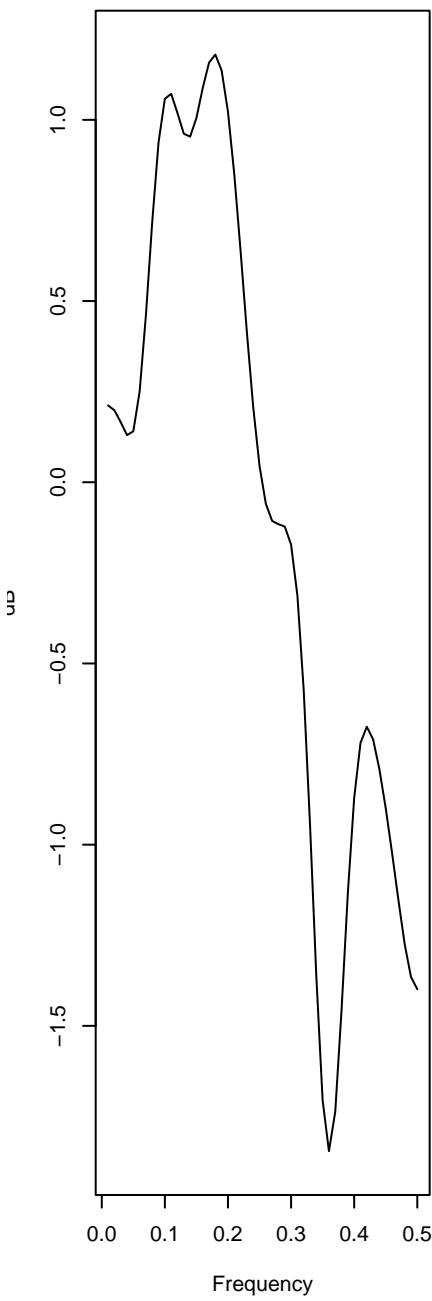
### Parzen Window



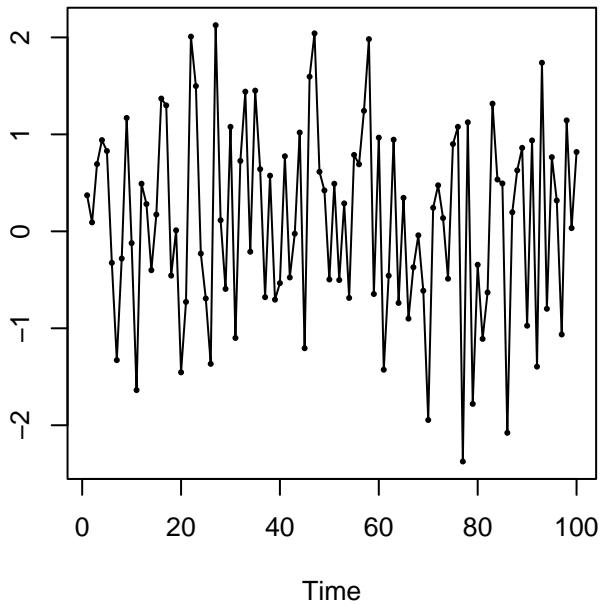
### Periodogram



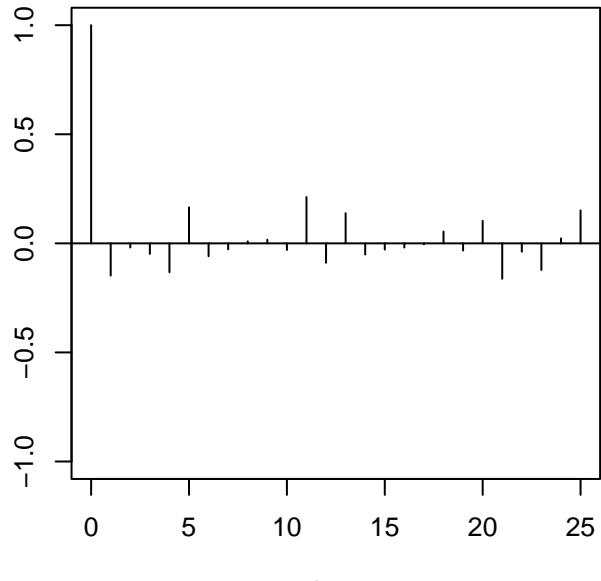
**Realization****Sample Autocorrelations****Parzen Window**

**Realization****Sample Autocorrelations****Parzen Window**

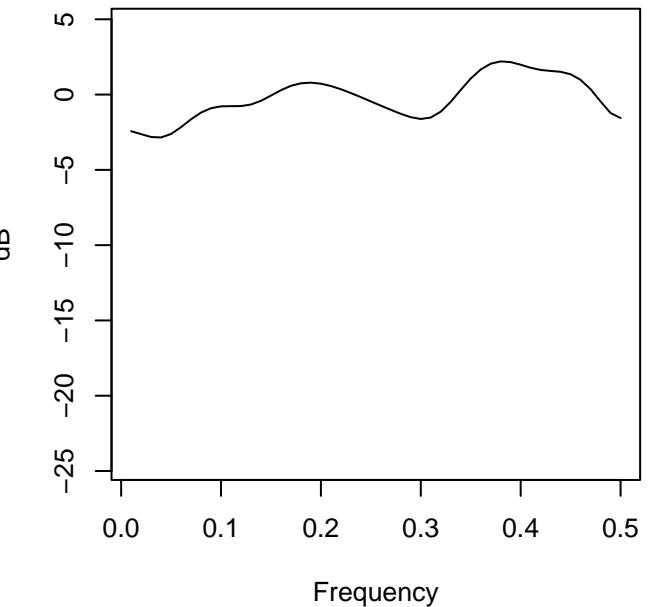
### Realization



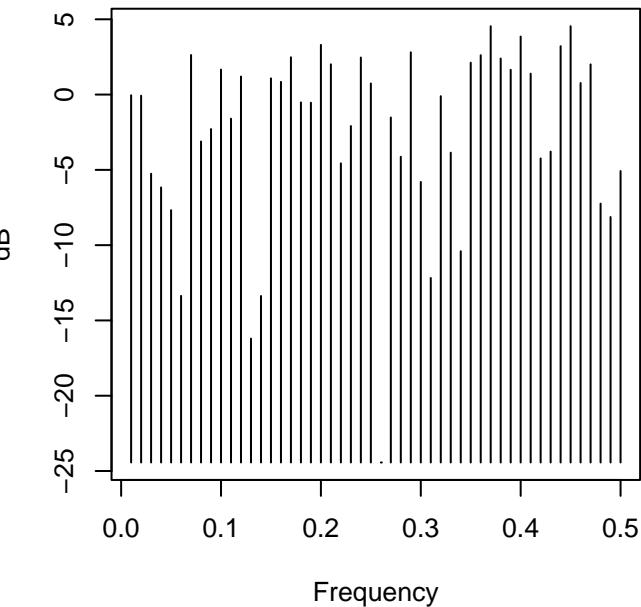
### Sample Autocorrelations

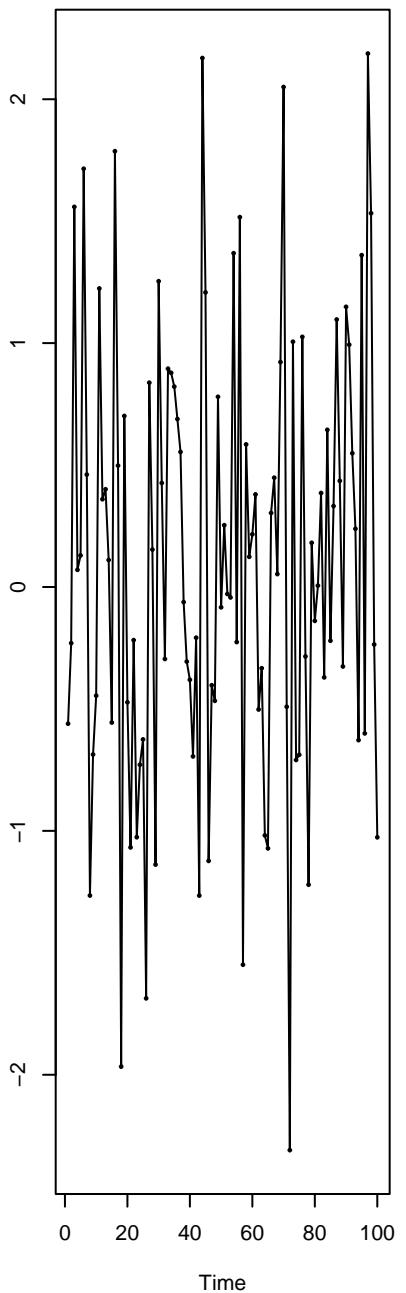
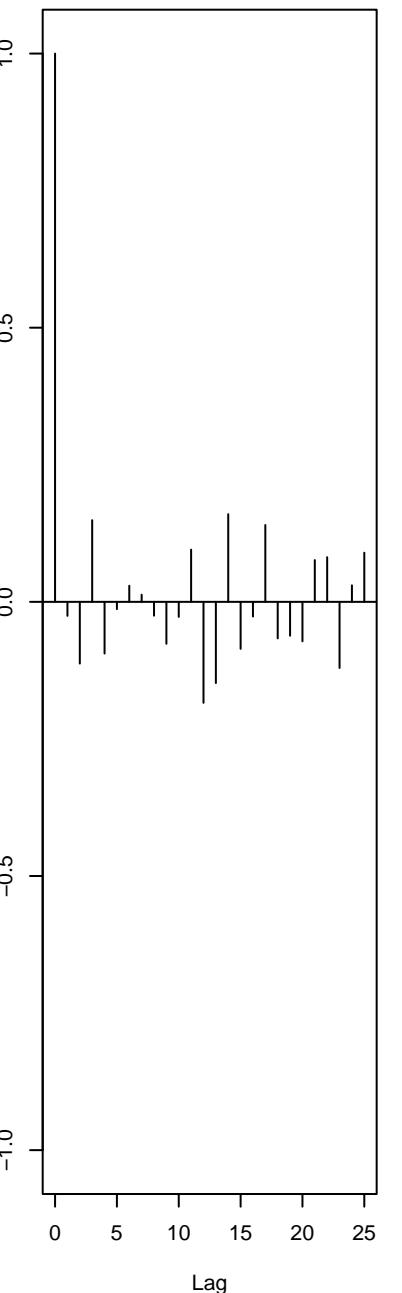
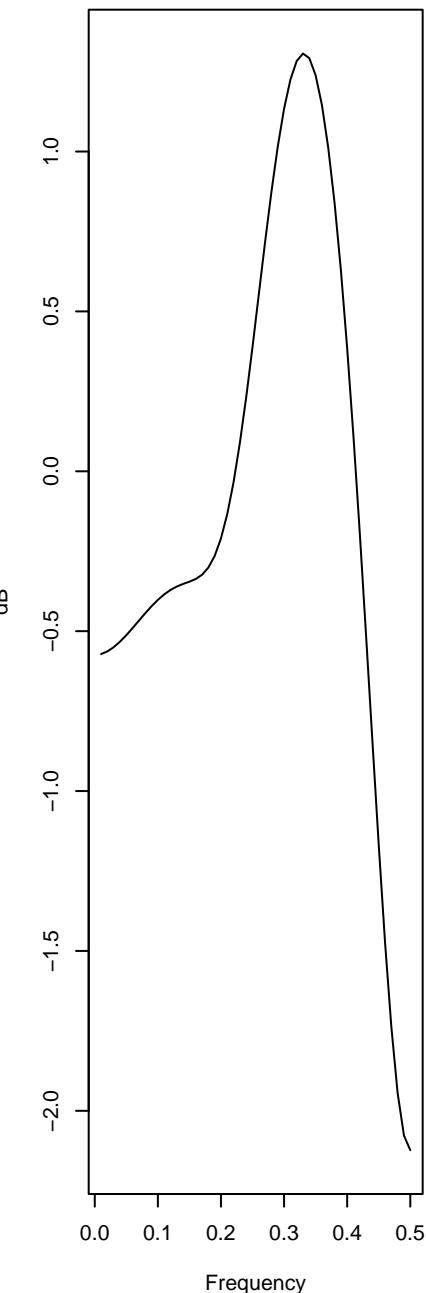


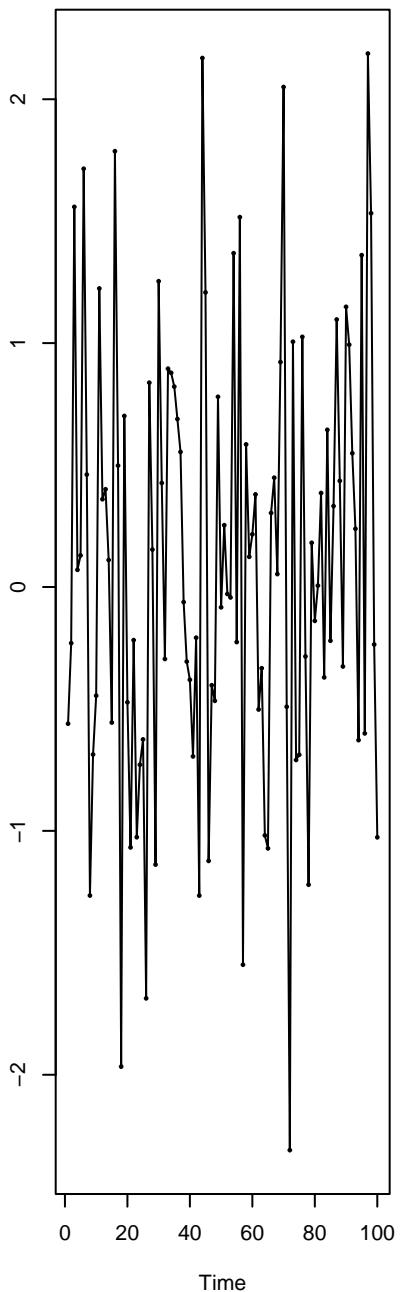
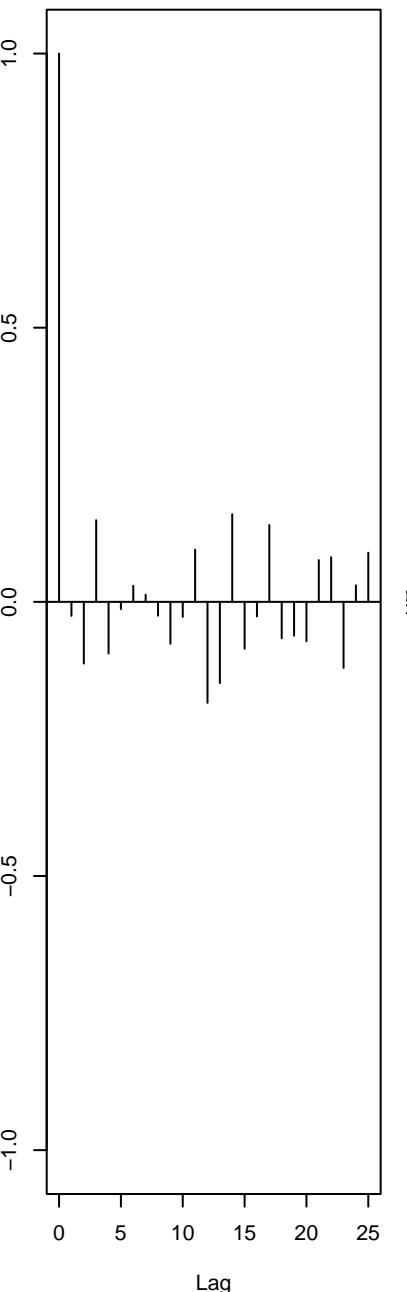
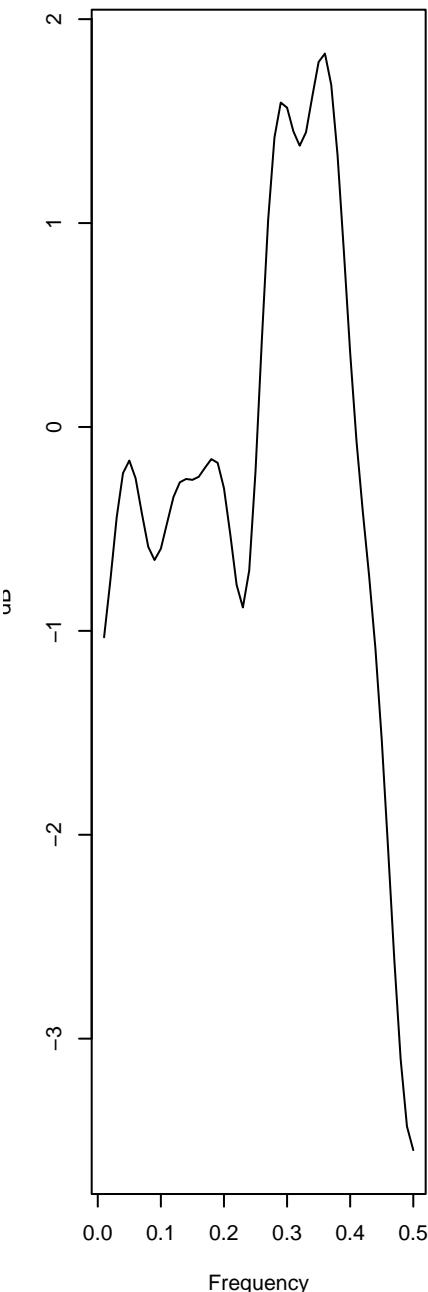
### Parzen Window

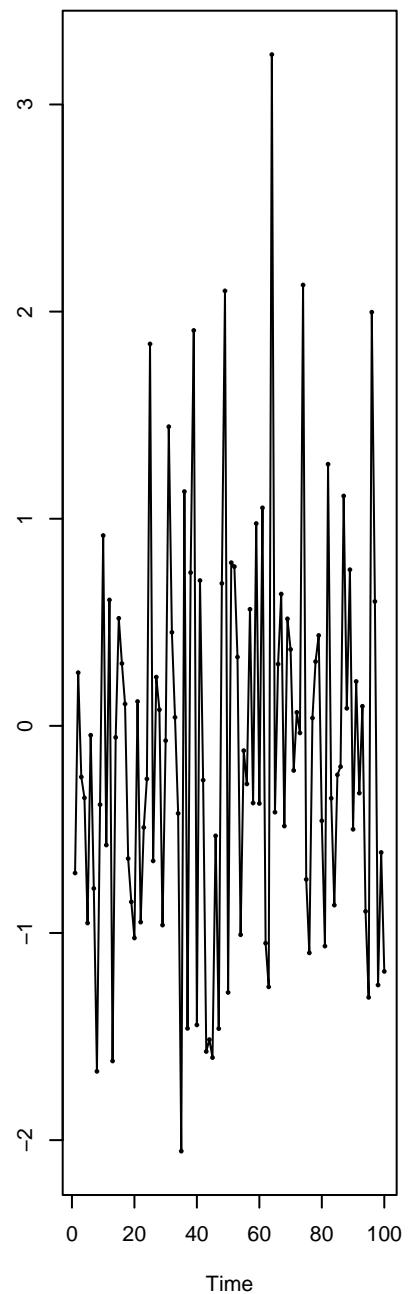
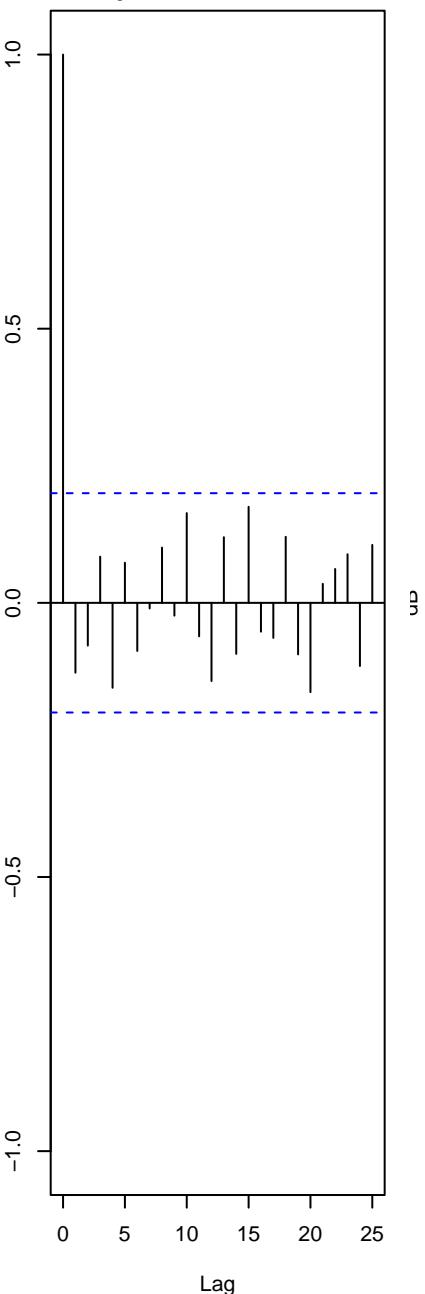
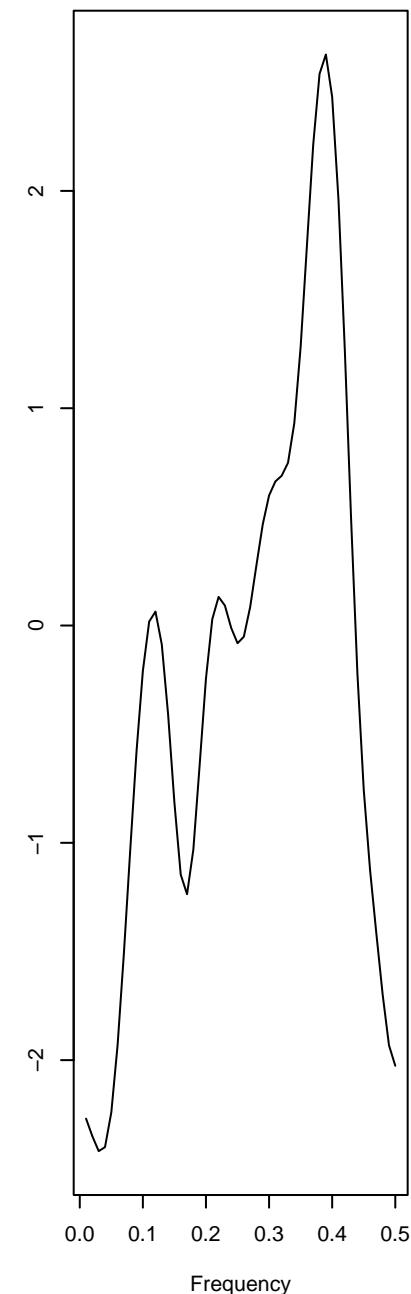


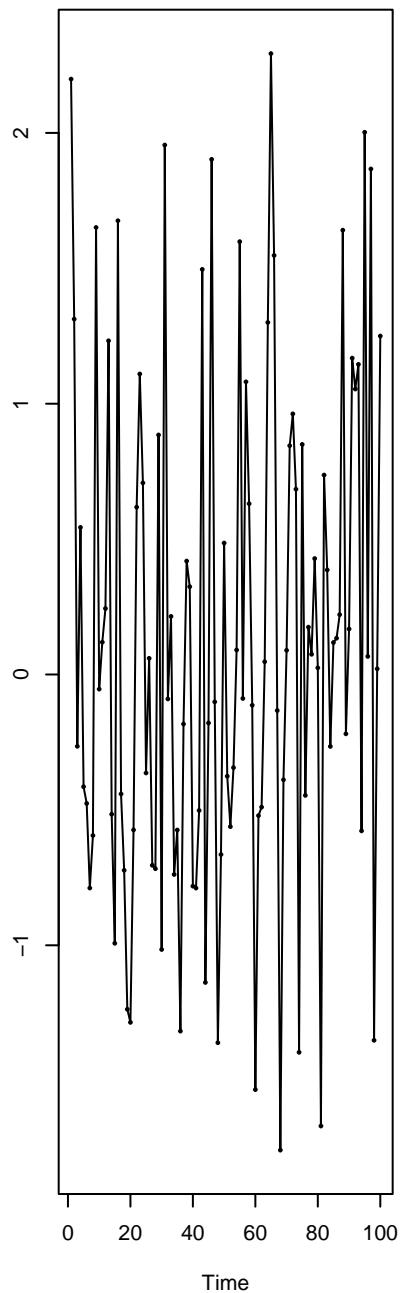
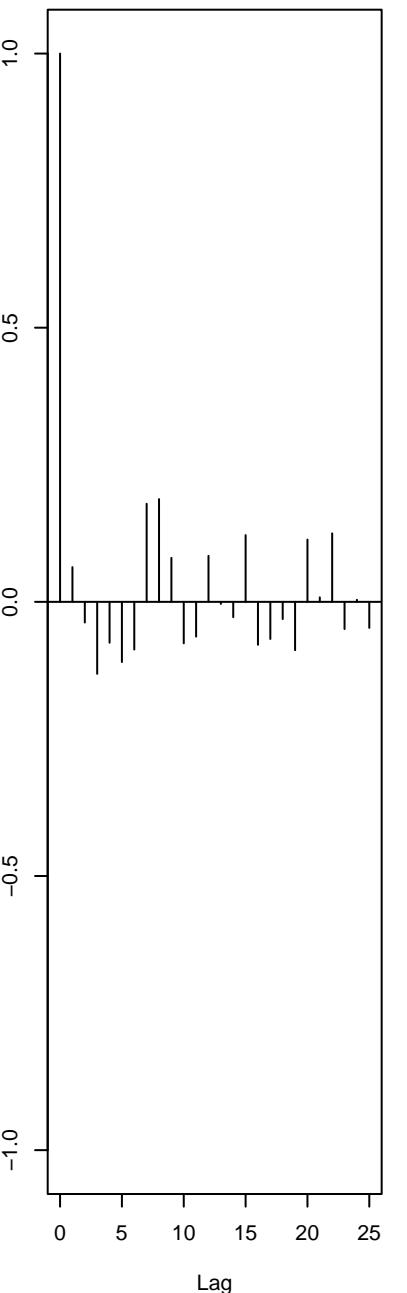
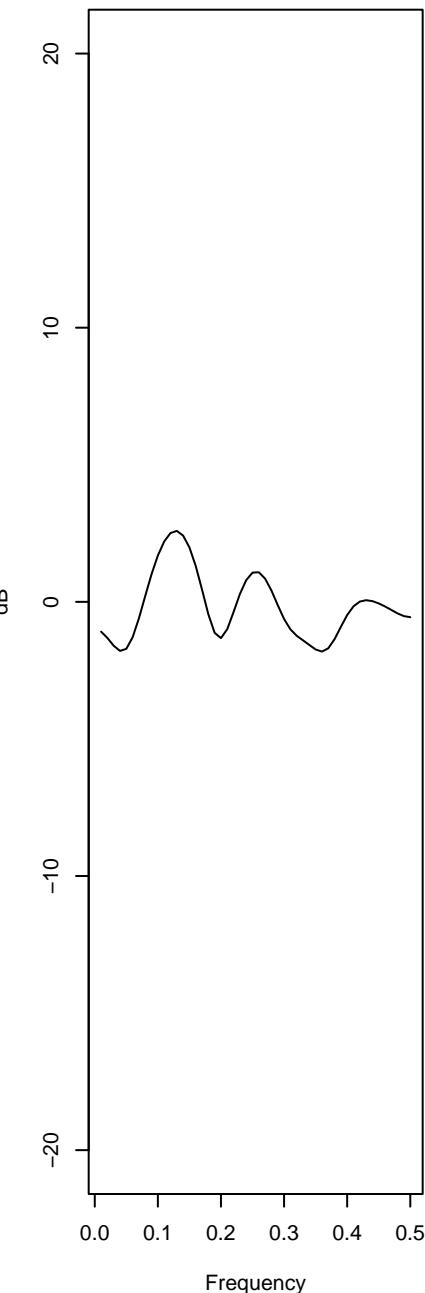
### Periodogram

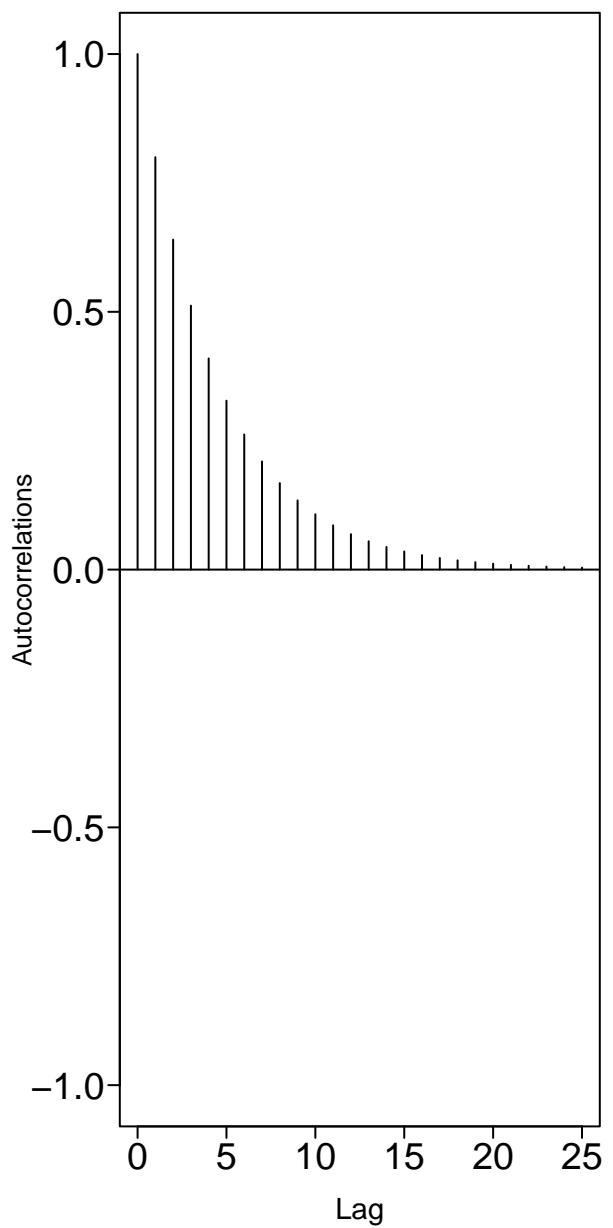


**Realization****Sample Autocorrelations****Parzen Window**

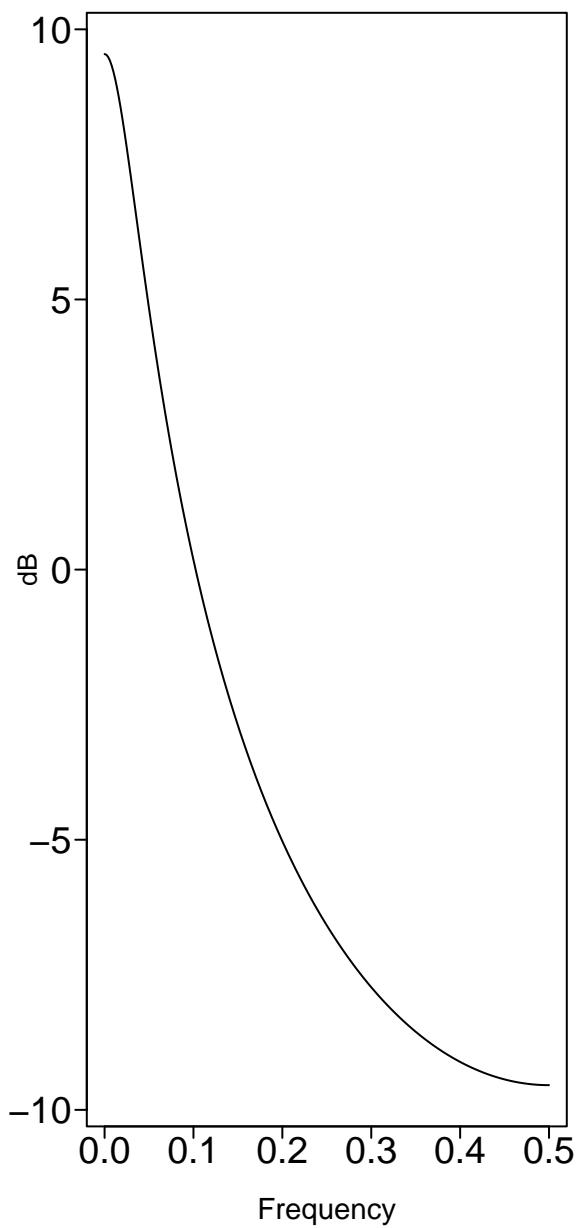
**Realization****Sample Autocorrelations****Parzen Window**

**Realization****Sample Autocorrelations****Parzen Window**

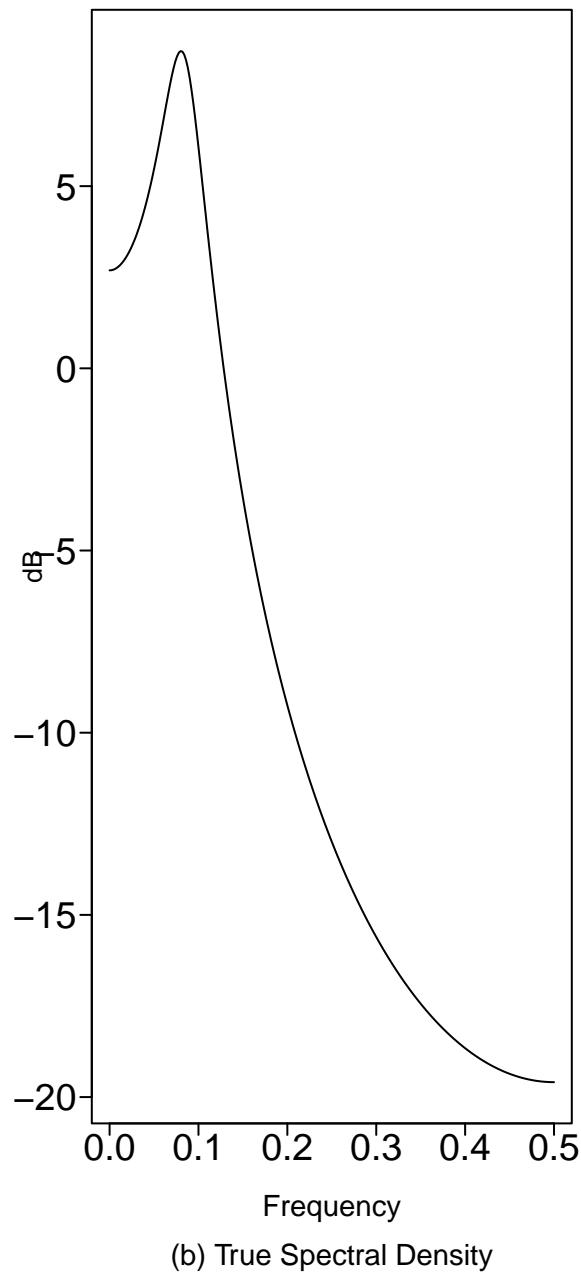
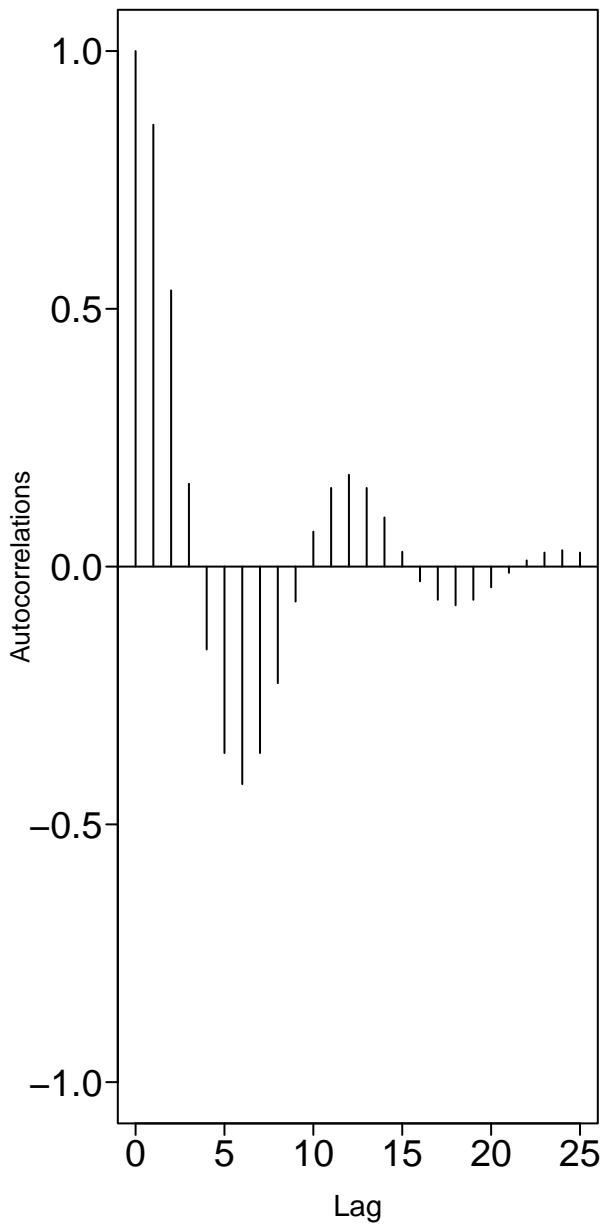
**Realization****Sample Autocorrelations****Parzen Window**

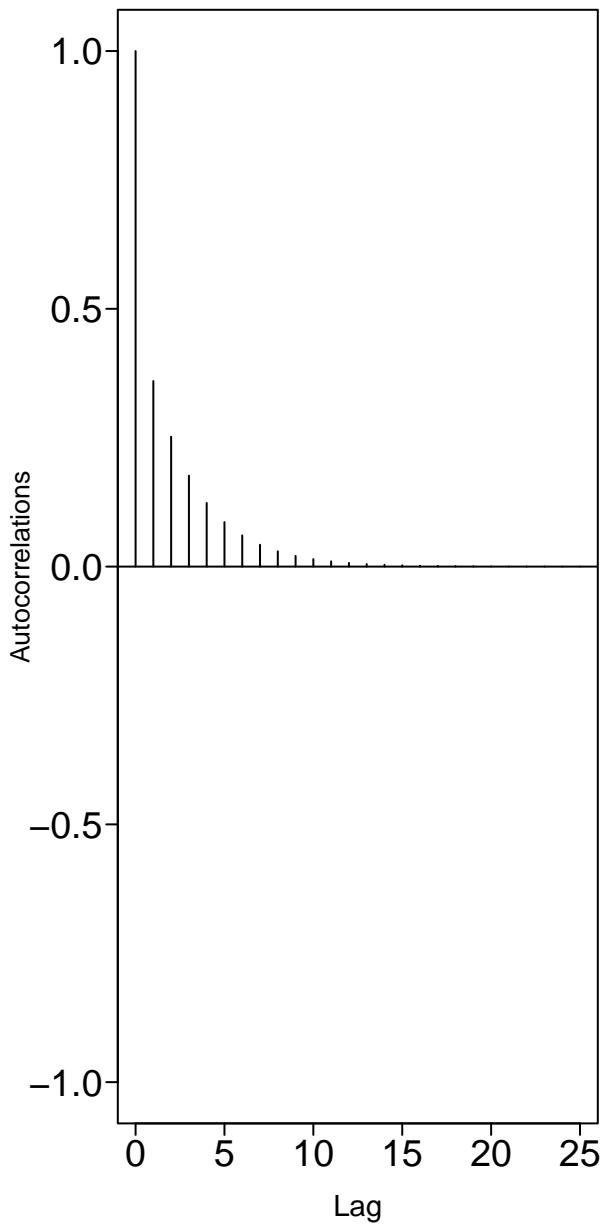


(a) True Autocorrelations

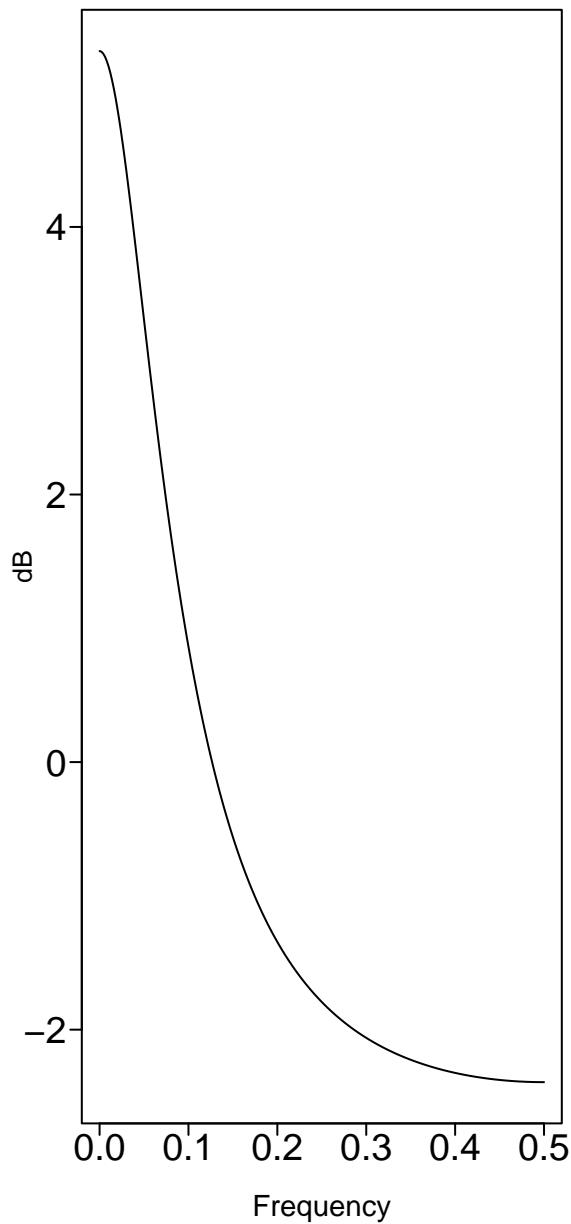


(b) True Spectral Density



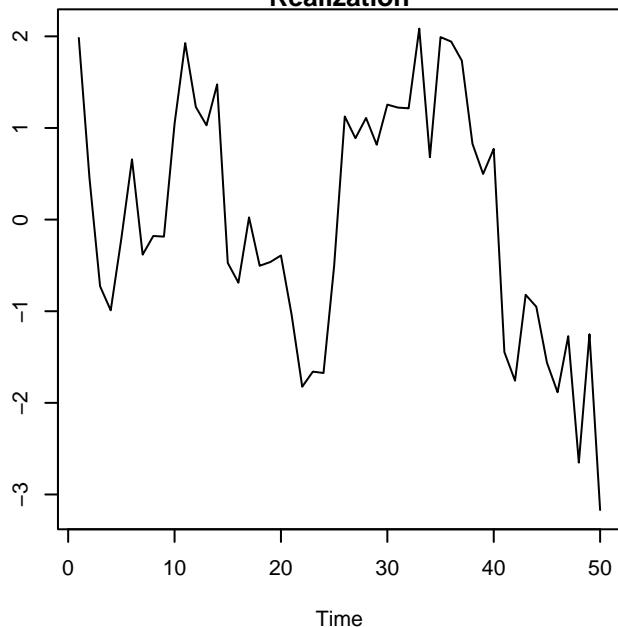


(a) True Autocorrelations

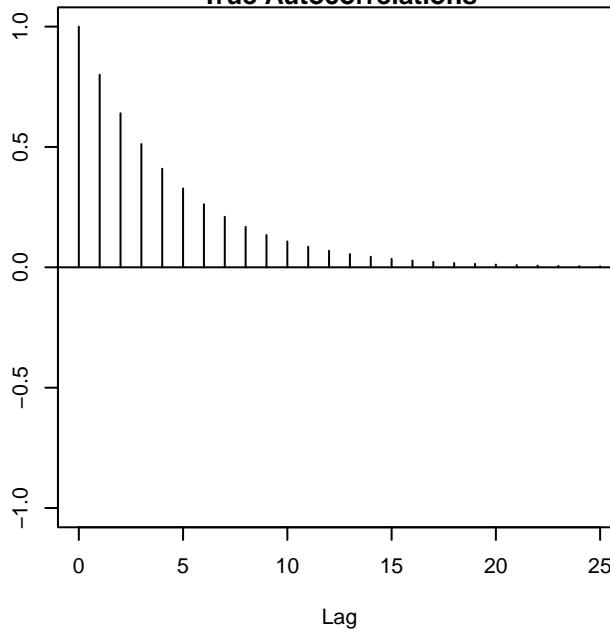


(b) True Spectral Density

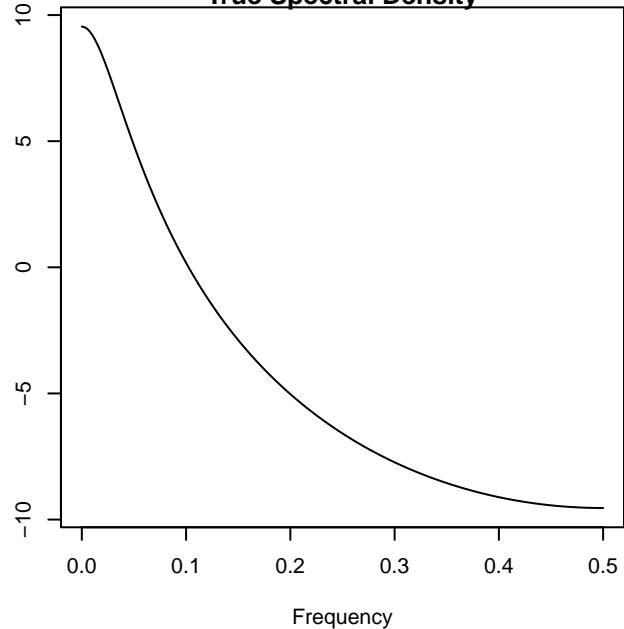
**Realization**



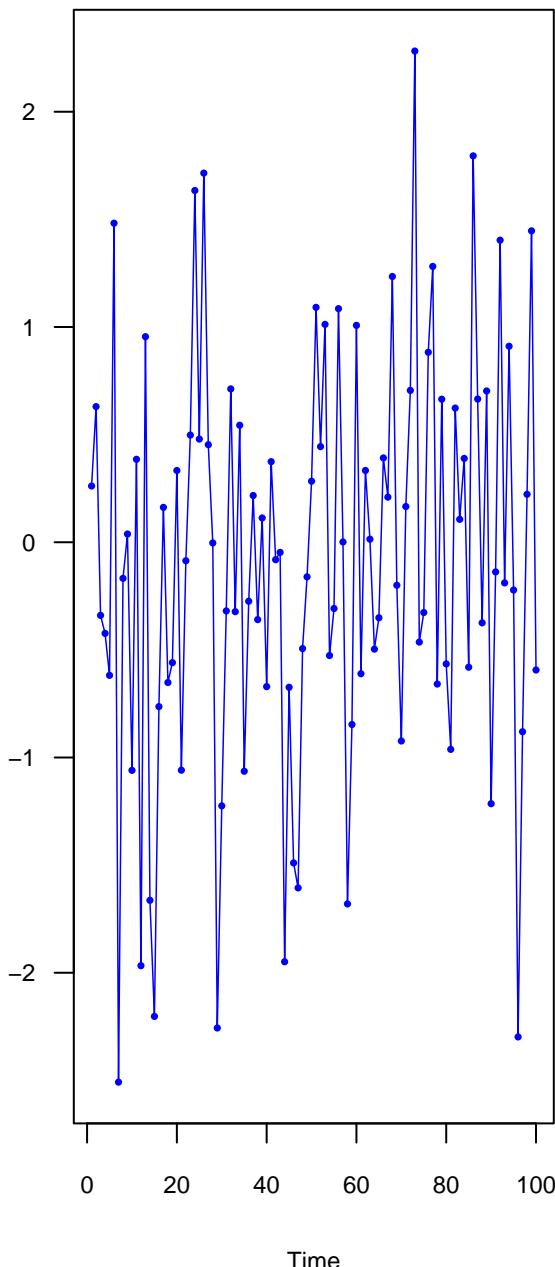
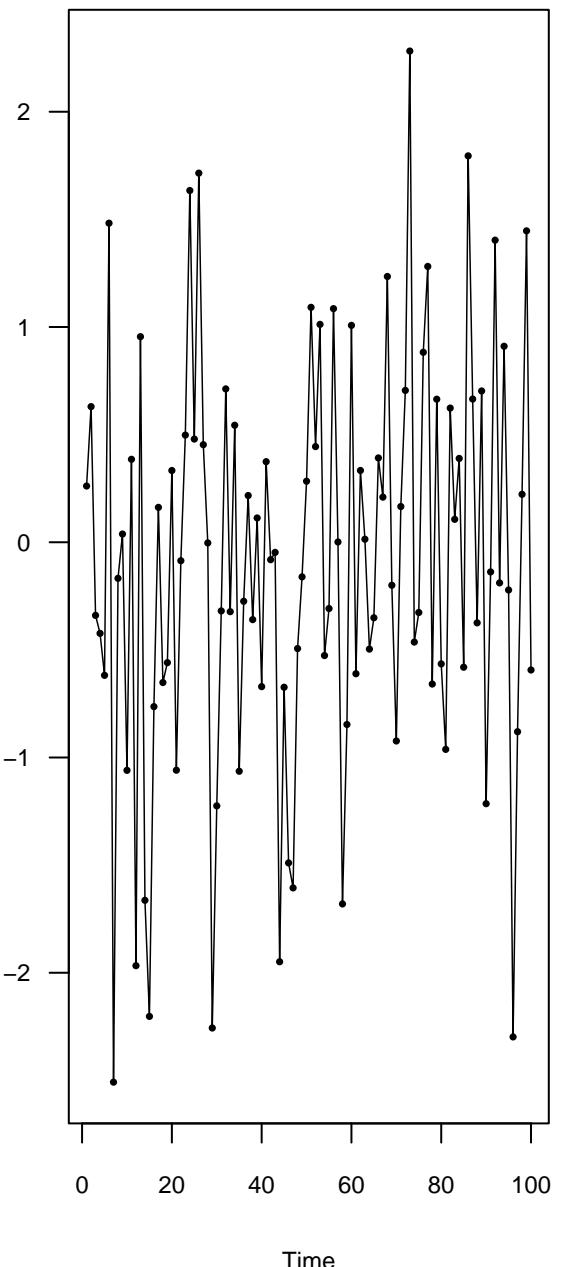
**True Autocorrelations**

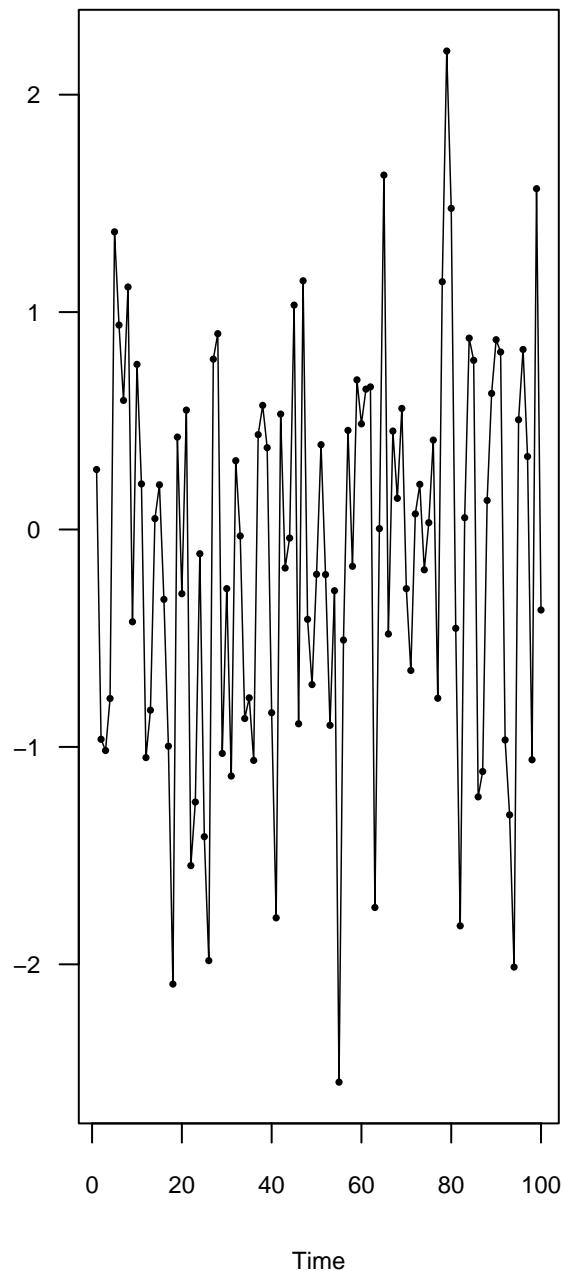
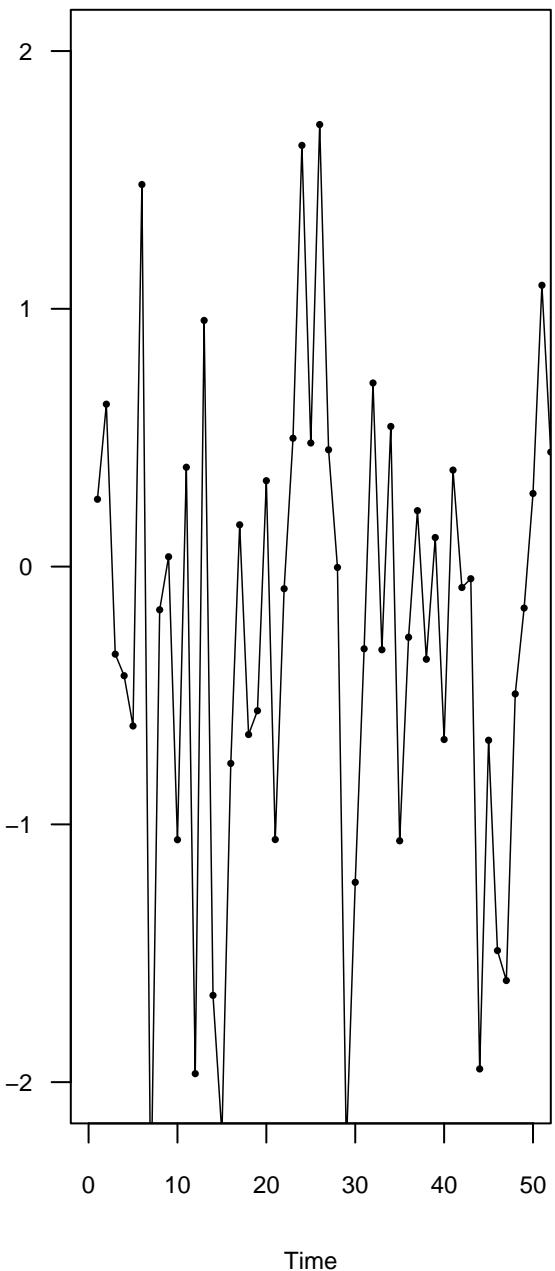


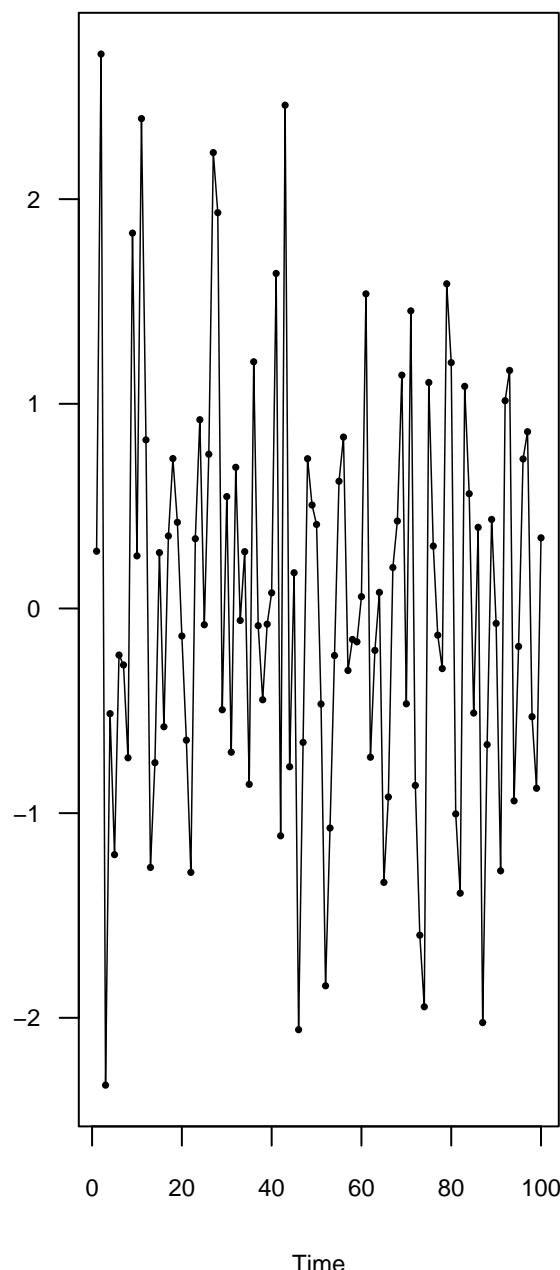
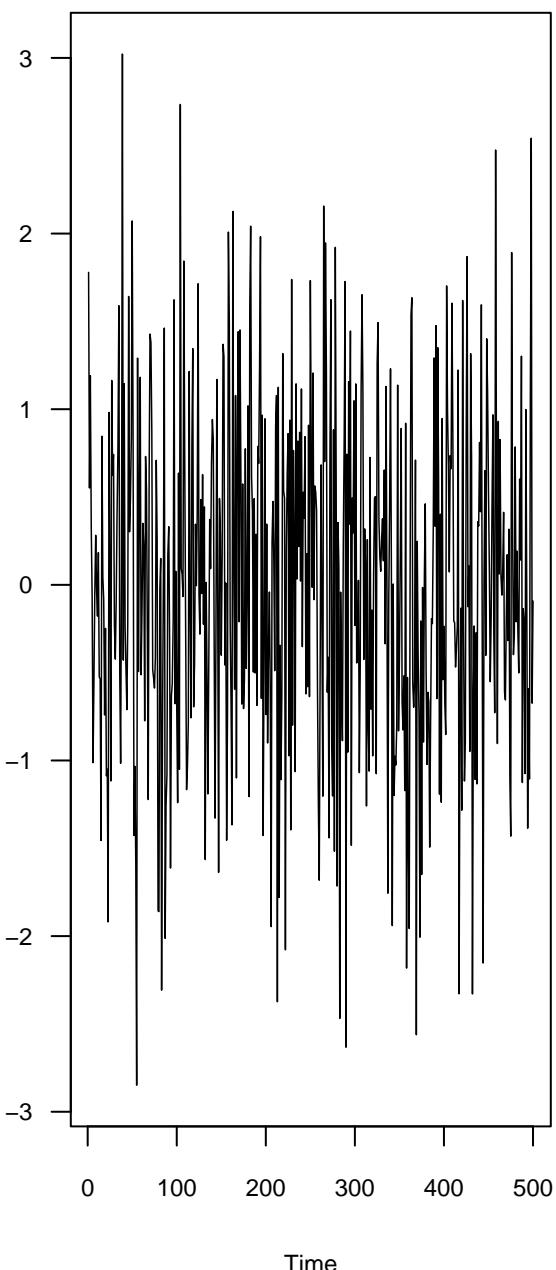
**True Spectral Density**



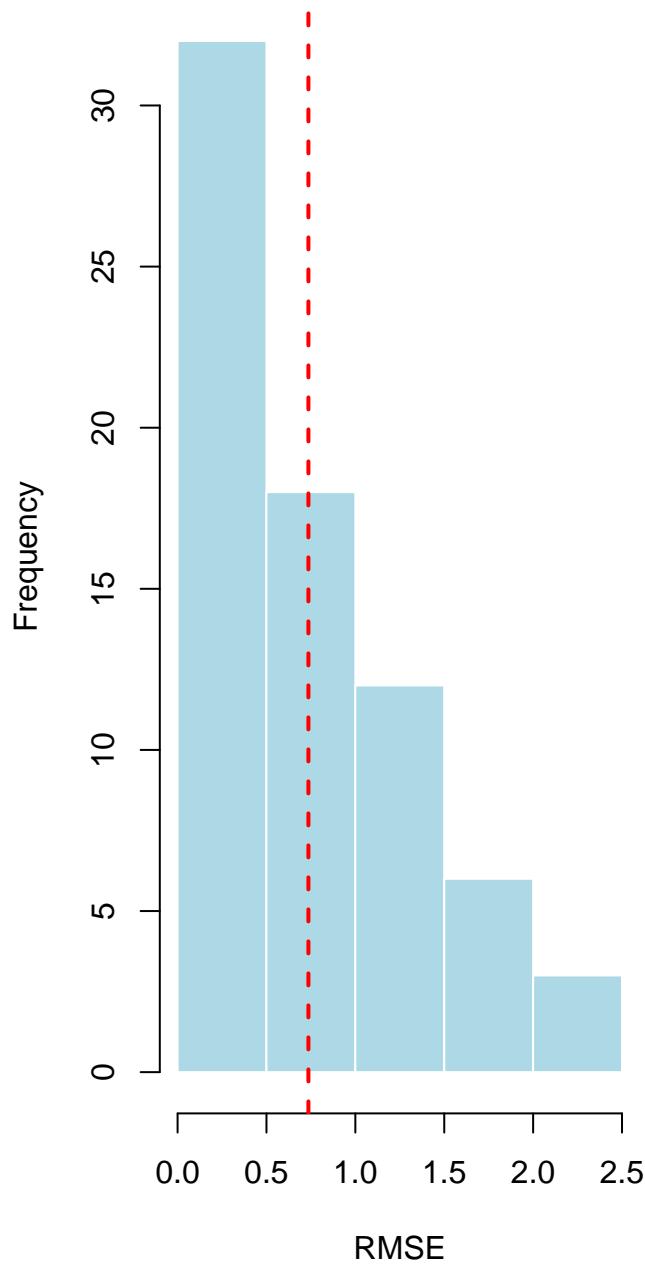
# Test



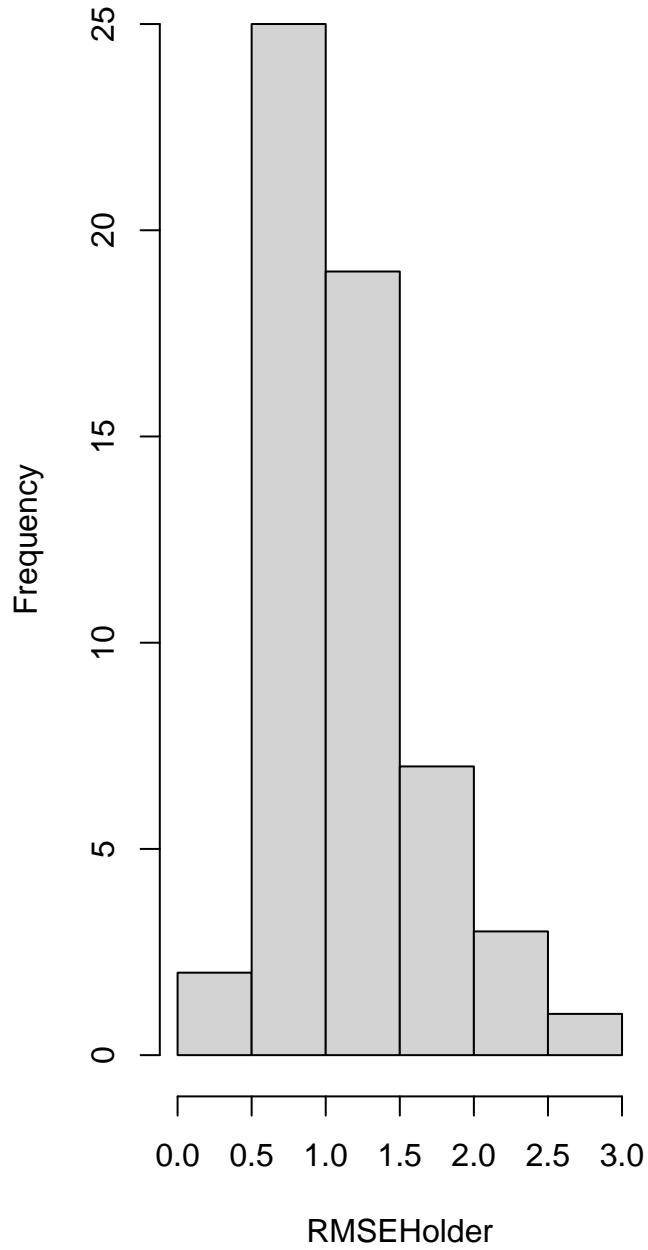




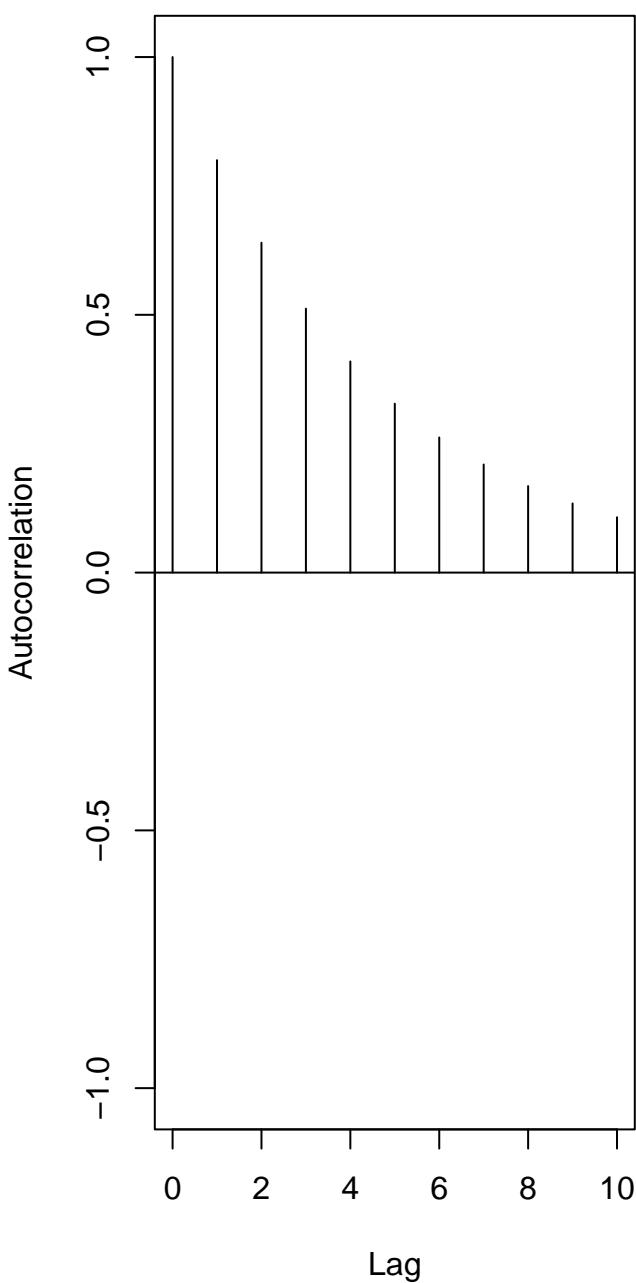
# RMSE Distribution Across Wind



### RMSEs for Individual Windows



### True Autocorrelations



## True Spectral Density

