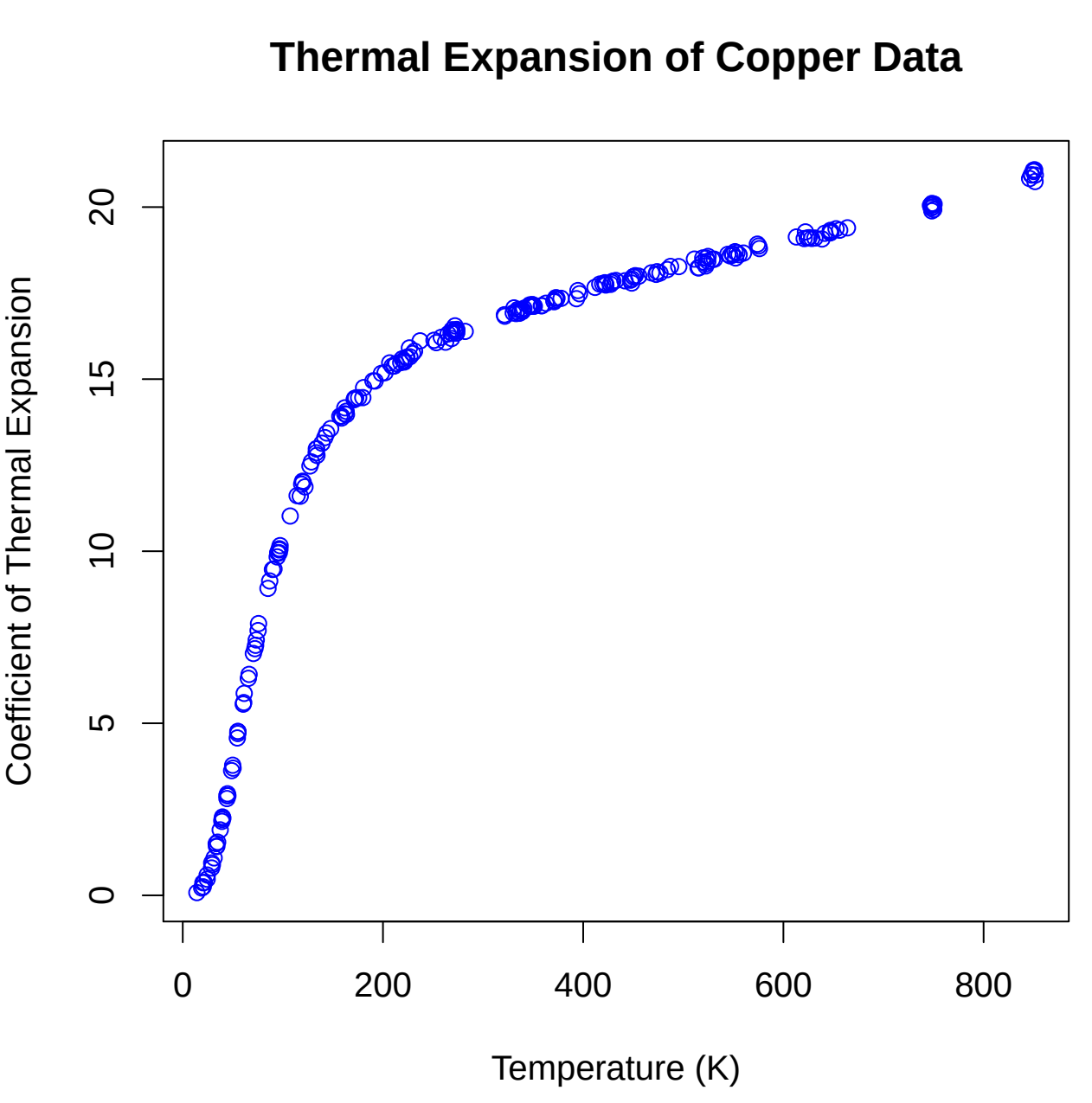
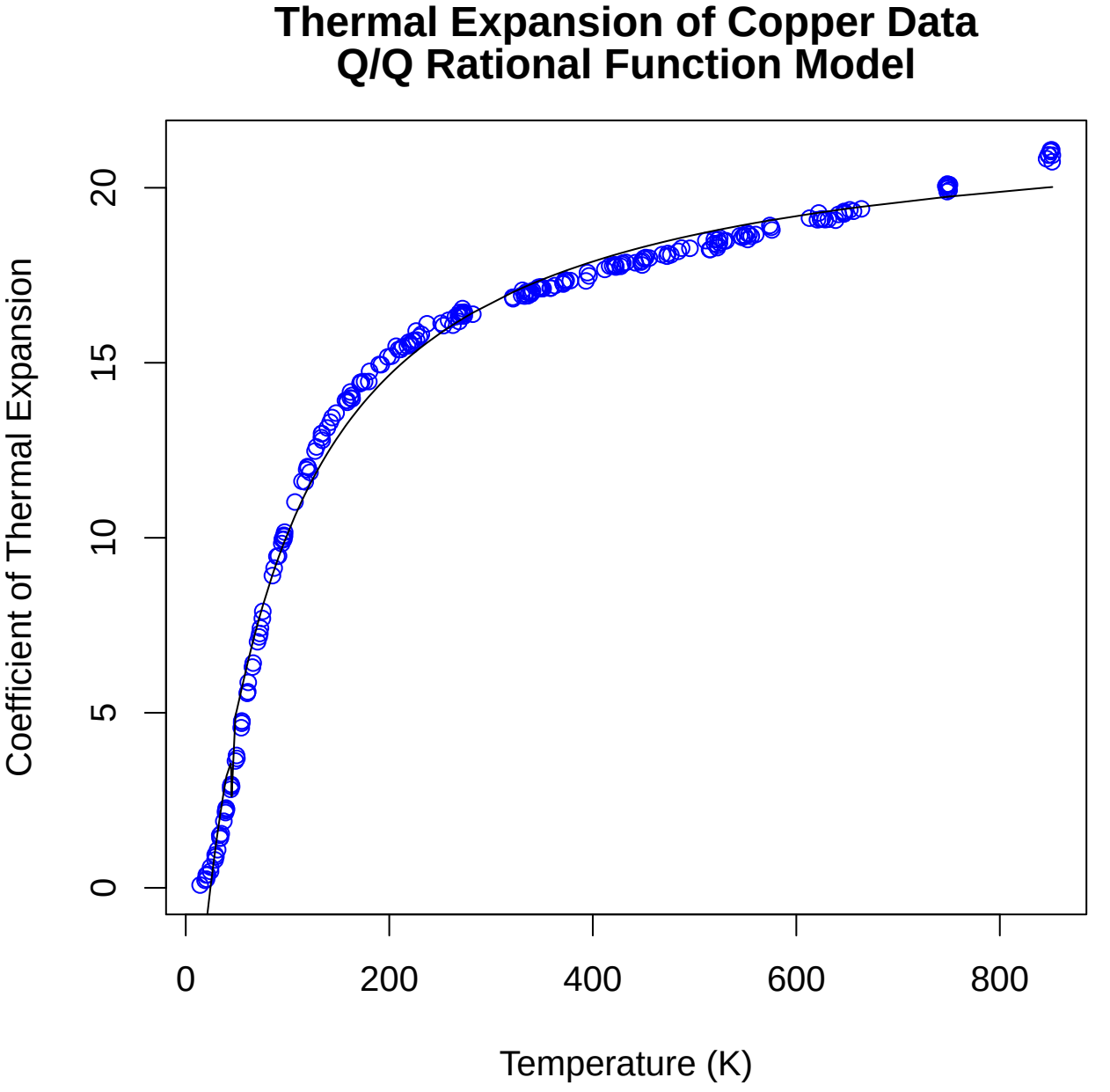
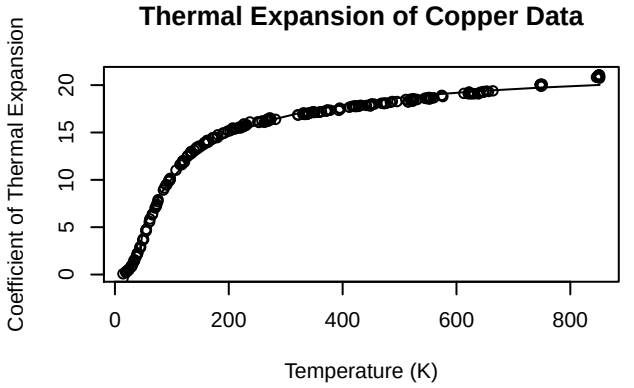
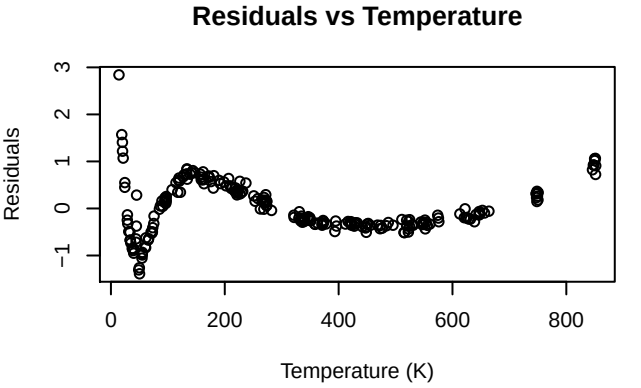
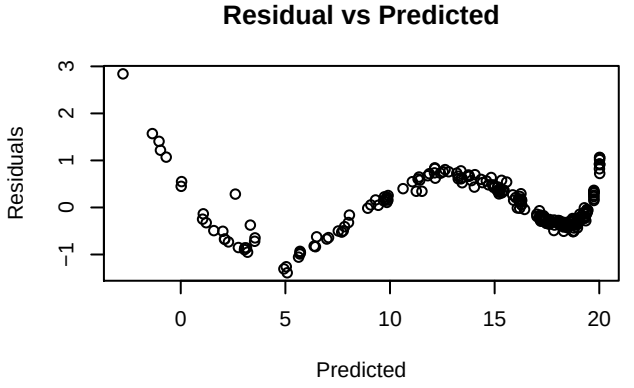
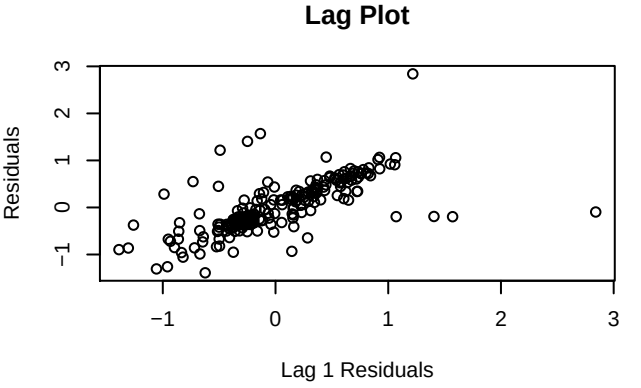

Thermal Expansion of Copper Data
Coefficient of Thermal Expansion
0
5
10
15
20
0
200
400
600
800
Temperature (K)

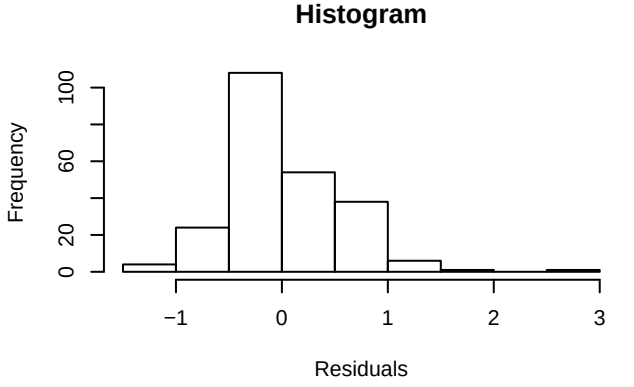

Thermal Expansion of Copper Data
Q/Q Rational Function Model
Coefficient of Thermal Expansion
0
5
10
15
20
0
200
400
600
800
Temperature (K)

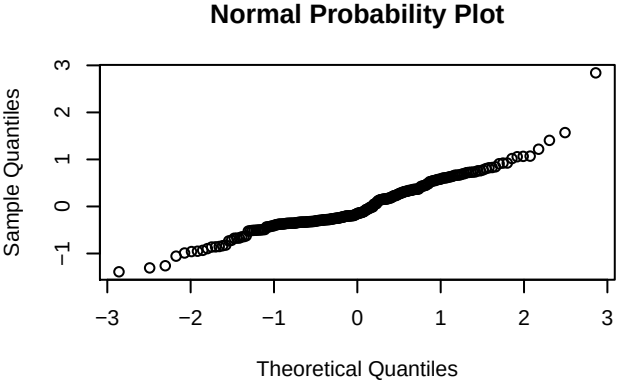

Thermal Expansion of Copper Data
Coefficient of Thermal Expansion
0
5
10
15
20
0
200
400
600
800
Temperature (K)

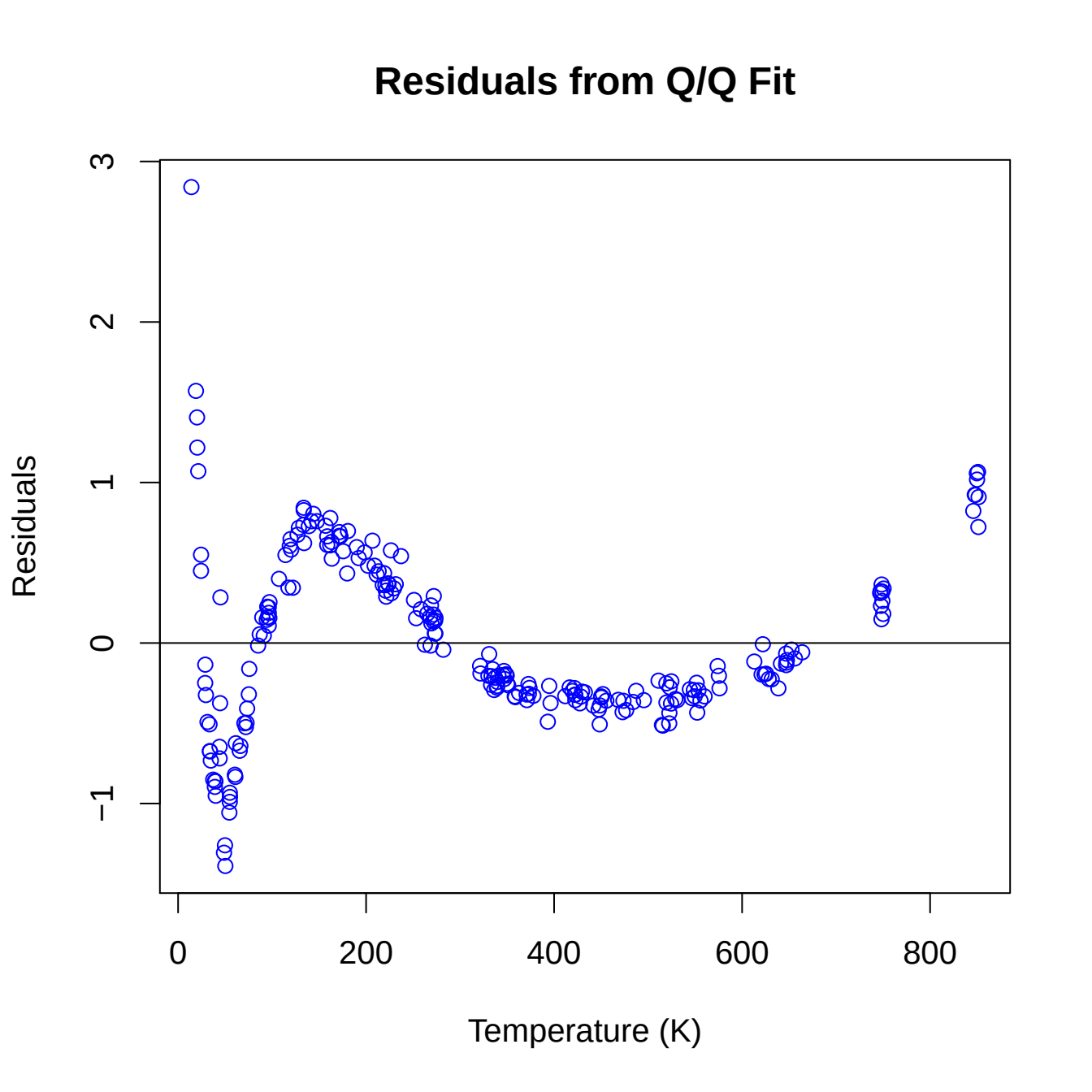

Residuals vs Temperature
Residuals
−1
0
1
2
3
0
200
400
600
800
Temperature (K)

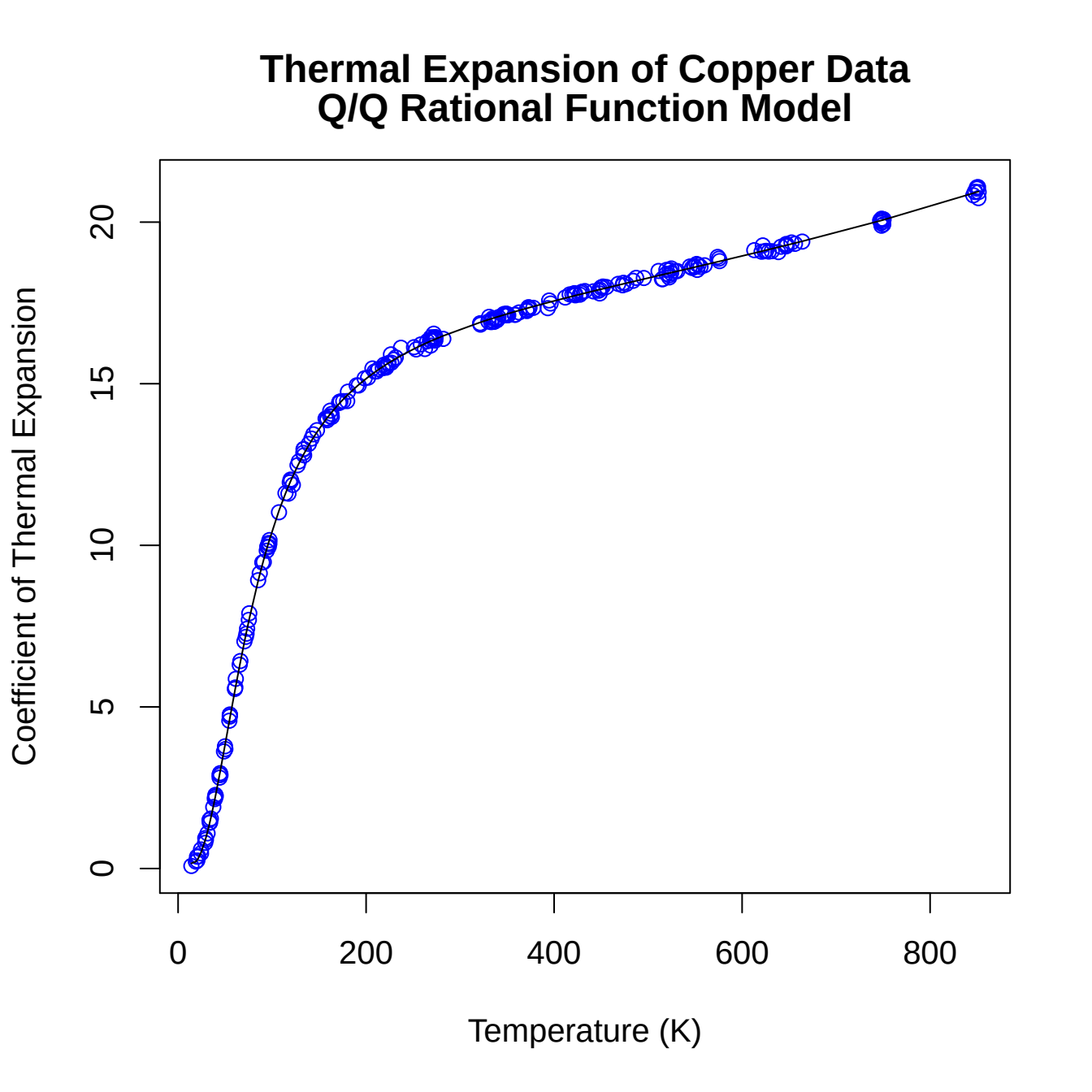

Residual vs Predicted
Residuals
−1
0
1
2
3
0
5
10
15
20
Predicted

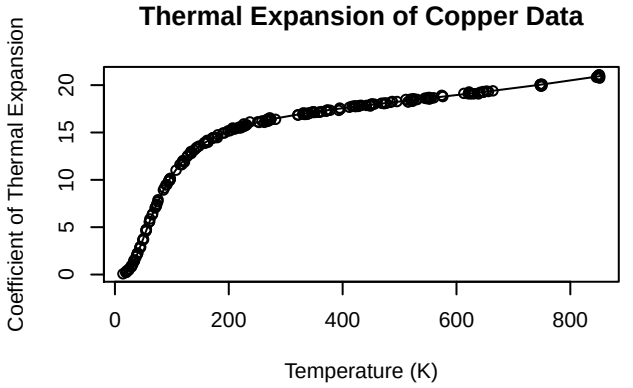

Lag Plot
Residuals
−1
0
1
2
3
−1
0
1
2
3
Lag 1 Residuals

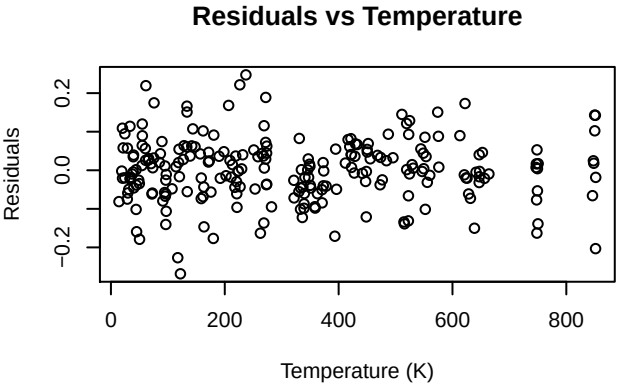

Histogram
Frequency
0
20
60
100
−1
0
1
2
3
Residuals

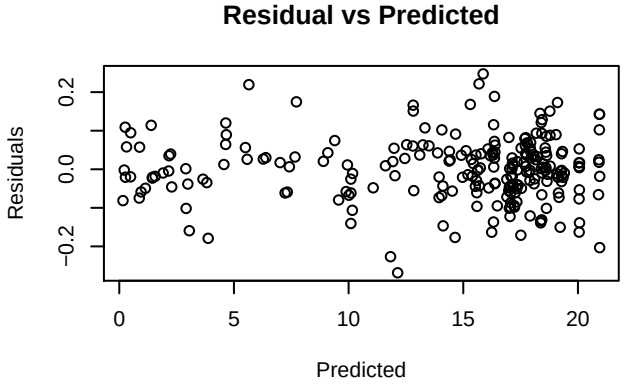

Normal Probability Plot
Sample Quantiles
−1
0
1
2
3
−3
−2
−1
0
1
2
3
Theoretical Quantiles

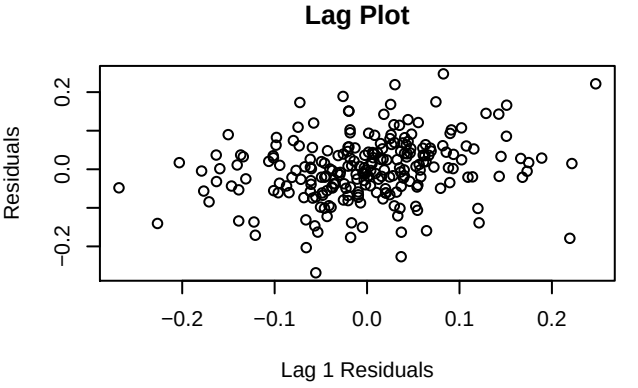

Residuals from Q/Q Fit
Residuals
3
2
1
0
−1
0
200
400
600
800
Temperature (K)

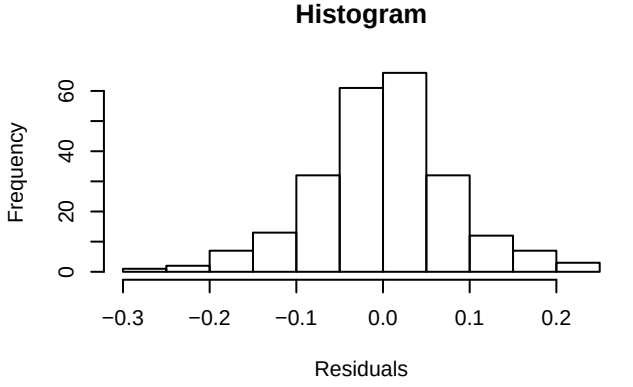

Thermal Expansion of Copper Data
Q/Q Rational Function Model
Coefficient of Thermal Expansion
0
5
10
15
20
0
200
400
600
800
Temperature (K)

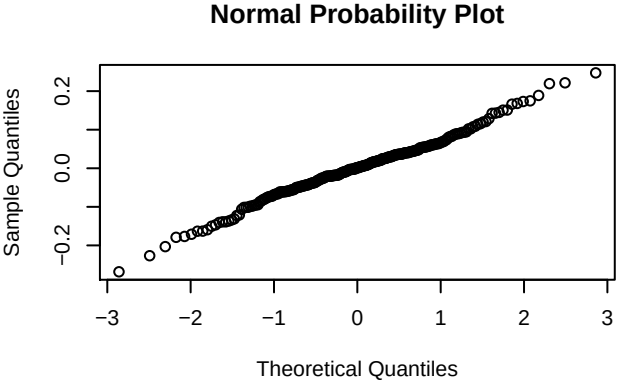

Thermal Expansion of Copper Data
Coefficient of Thermal Expansion
0
5
10
15
20
0
200
400
600
800
Temperature (K)

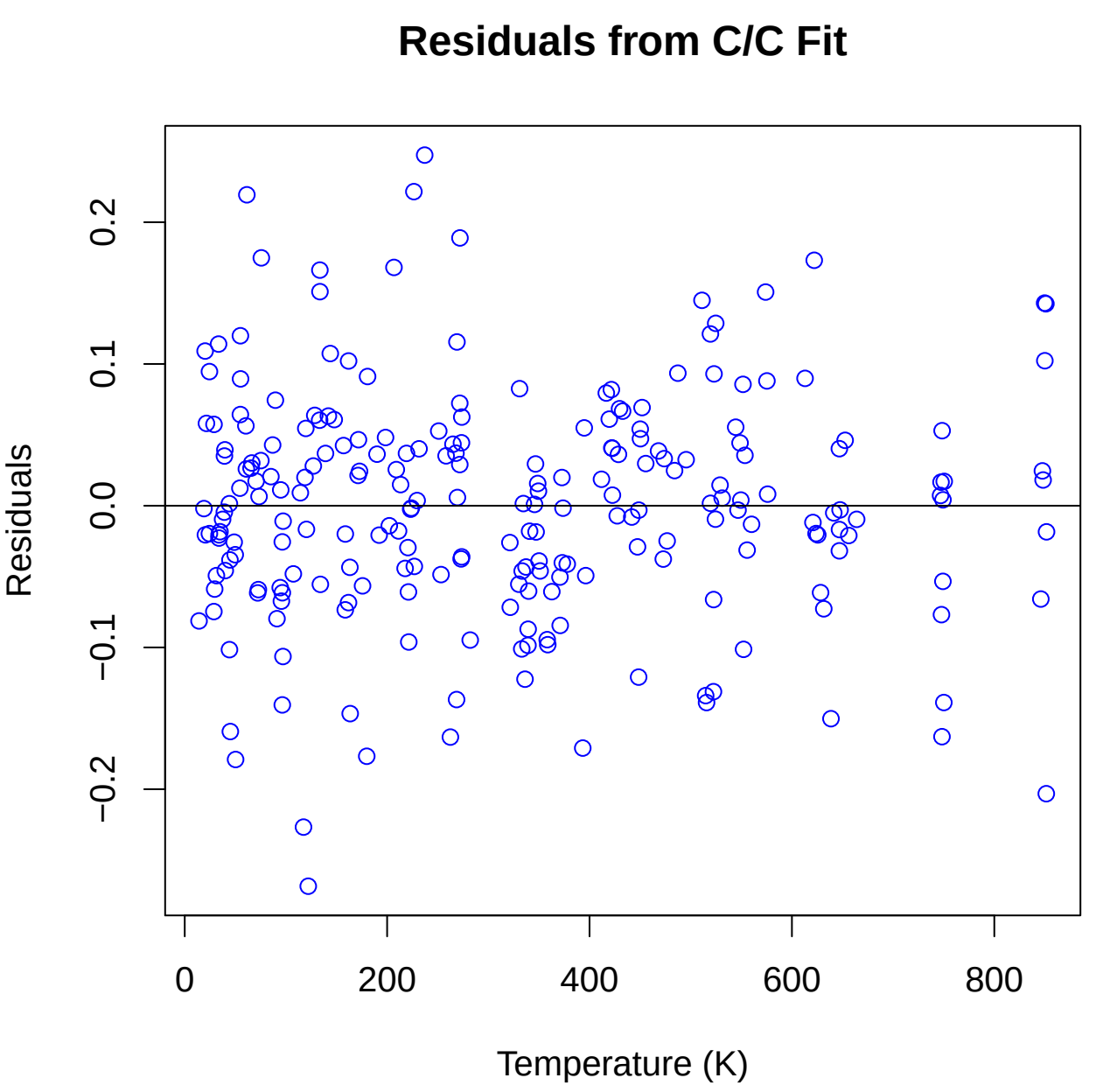

Residuals vs Temperature
Residuals
−0.2
0.0
0.2
0
200
400
600
800
Temperature (K)


Residual vs Predicted
Residuals
−0.2
0.0
0.2
0
5
10
15
20
Predicted


Lag Plot
Residuals
−0.2
0.0
0.2
−0.2
−0.1
0.0
0.1
0.2
Lag 1 Residuals


Histogram
Frequency
0
20
40
60
−0.3
−0.2
−0.1
0.0
0.1
0.2
Residuals


Normal Probability Plot
Sample Quantiles
−0.2
0.0
0.2
−3
−2
−1
0
1
2
3
Theoretical Quantiles


Residuals from C/C Fit
Residuals
0.2
0.1
0.0
−0.1
−0.2
0
200
400
600
800
Temperature (K)