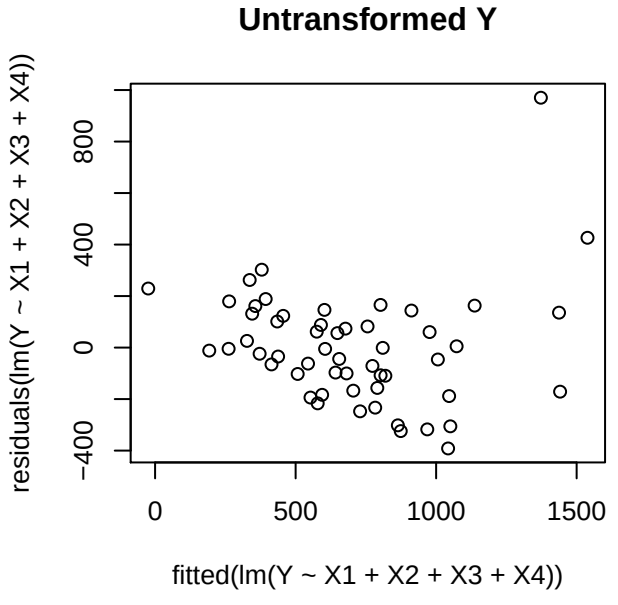
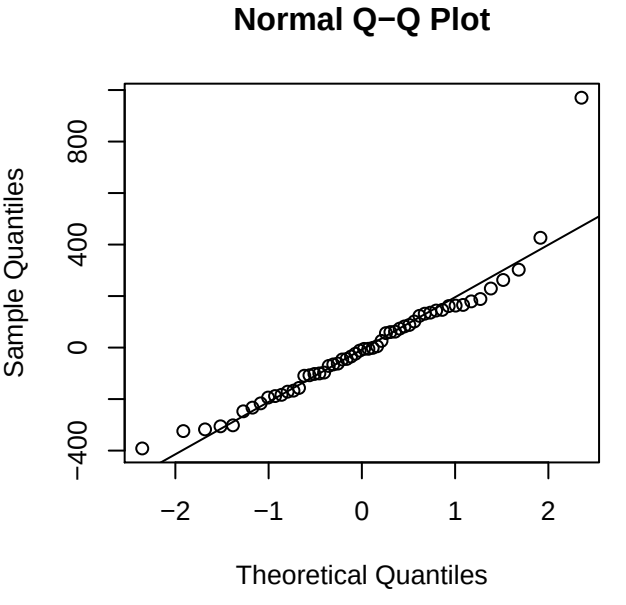
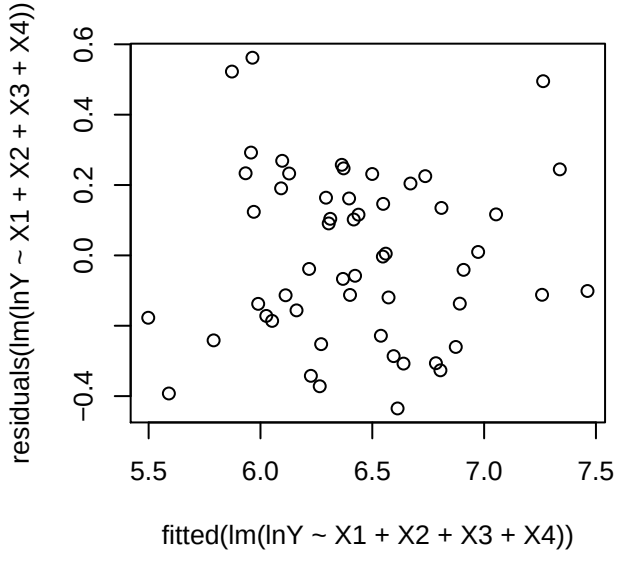
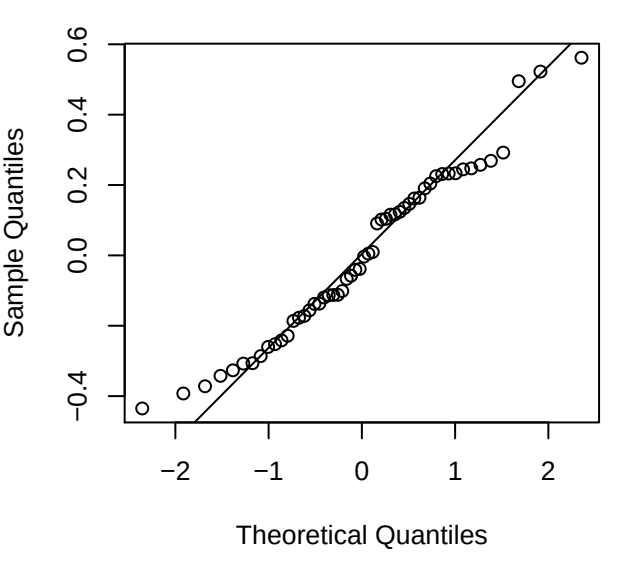
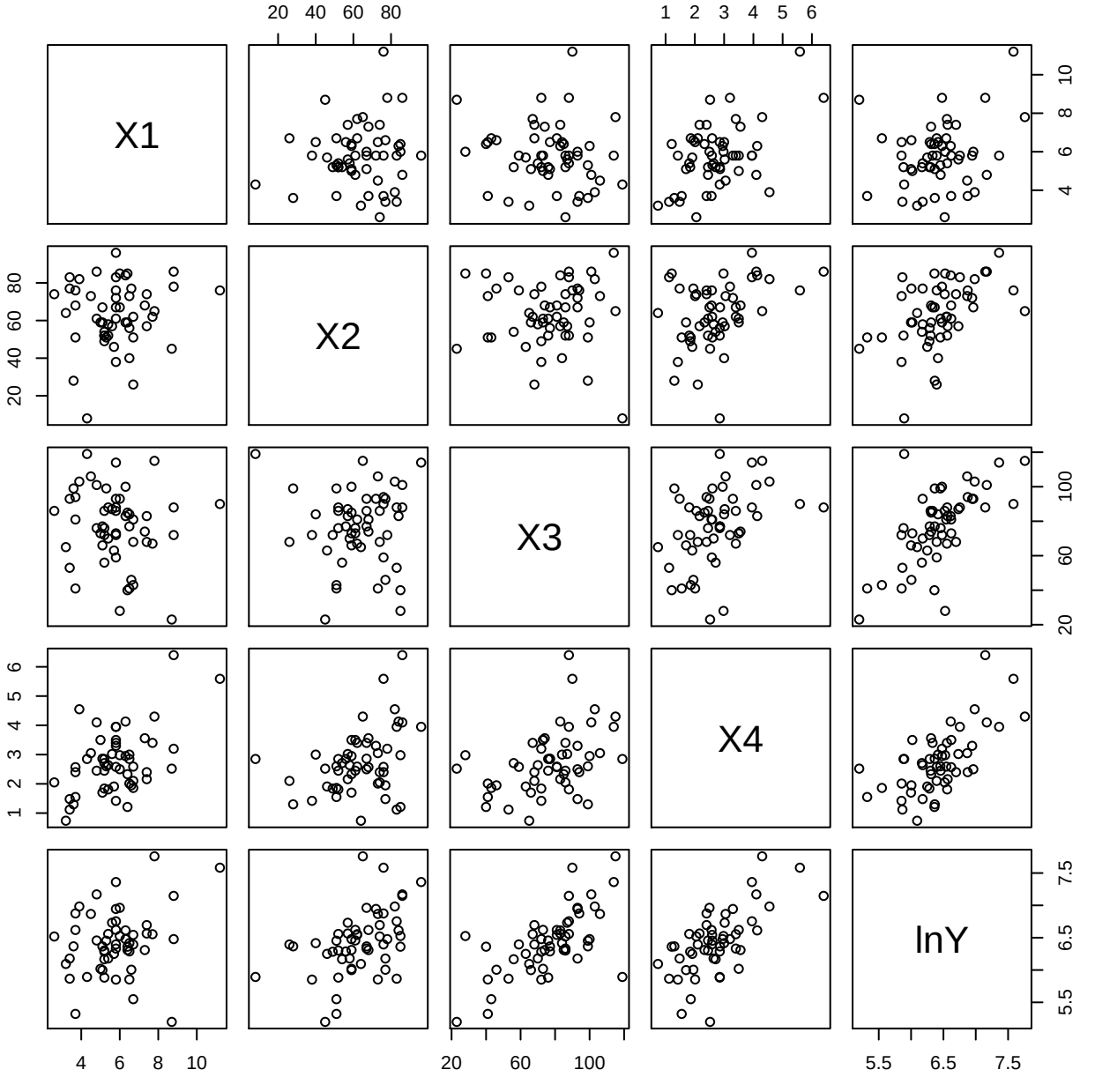

Untransformed Y
residuals(lm(Y ~ X1 + X2 + X3 + X4))
fitted(lm(Y ~ X1 + X2 + X3 + X4))
−400
0
400
800
0
500
1000
1500


Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−400
0
400
800
−2
−1
0
1
2


Transformed Y
residuals(lm(lnY ~ X1 + X2 + X3 + X4))
fitted(lm(lnY ~ X1 + X2 + X3 + X4))
−0.4
0.0
0.2
0.4
0.6
5.5
6.0
6.5
7.0
7.5


Normal Q−Q Plot
Sample Quantiles
Theoretical Quantiles
−0.4
0.0
0.2
0.4
0.6
−2
−1
0
1
2


X1
X2
X3
X4
lnY
20 40 60 80
1 2 3 4 5 6
4 6 8 10
20 40 60 80
1 2 3 4 5 6
4 6 8 10
20 60 100
20 60 100
1 2 3 4 5 6
4 6 8 10
20 60 100
5.5 6.5 7.5
4 6 8 10
20 60 100
5.5 6.5 7.5