# Question 1

## Data 1

AIC

Model 1 -190942.0

Model 2 -252820.0

Model 3 6.0

Model 4 -252379.3

Model 5 8.0

Theta1 Theta2 Theta3 Theta4

Model1 2.243586e-05 7.297927e-01 -0.35382894

Model2 3.504814e-05 2.214008e-05 0.00753653 0.390304659706936

Model3 9.813911e-01 2.786251e-01 -13.08359065 -95.4902437379006

Model4 6.449390e-03 7.592423e-03 0.38923875

Model5 -8.127284e-04 -6.321973e-02 -19.01513810