

# Project 2

Q1.

Write a computer program that finds the least-squares estimates of the coefficients in the following models.

a.  $y = ax^2 + bx + c$

b.  $y = ax^n$

Q2.

Write a computer program that uses Equations (3.4) and the appropriate transformed data to estimate the parameters of the following models.

a.  $y = bx^n$

b.  $y = be^{ax}$

c.  $y = a \ln x + b$

d.  $y = ax^2$

e.  $y = ax^3$

Q3.

Try to locate the trajectory of MU5735 using model fitting techniques and predict the source of this air crash.