Homework 5

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1   Problem 1

The solution is $-1.2571e + 03$.

2   Problem 2

The solution is $-1.2595e + 03$.

3   Problem 3a

The starting value for $[\gamma, \beta, \sigma_\beta]$ is $[1, 1, 1]$, the solution is $[-0.5060, 2.4937, 1.3738]$, taking the value: 536.7241.

4   Problem 3b

The starting value for $[\gamma, \beta, \sigma_\beta]$ is $[1, 1, 1]$, the solution is $[-0.4743, 2.0115, 1.3397]$, taking the value: 539.3724.

5   Problem 4

The starting value for $[\gamma, \beta, \sigma_u, \sigma_\beta, \sigma_{u\beta}]$ is $[1, 1, 1, 1, 0.1]$, the solution $[-0.5280, 1.2679, 1.3756, 1.6619, 0.1080]$ taking the value: 506.0013.