**To use the Gauss-Newton algorithm:**

1. We have 4 script file: gn\_exp, gn\_log, gn\_qua and gn\_rat. Open anyone of them and run the script file.
2. Enter the txt file name upon inquiry. The file name should be the full name with extension.
3. The format of the data in txt file should have two columns, separated by space, so two numbers in each row as (xn, yn)
4. Enter the vector beta in the format of [a, b, c]
5. Enter the number of iterations.

All of the four programs use Householder reflection to find QR.

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