# LAPORAN PRAKTIKUM METODE NUMERIK

Responsi 1: Galat, SPL, Pers. Non Linier



# **DISUSUN OLEH**

Kalya Azalia Deann

M0519053

PROGRAM STUDI INFORMATIKA
FAKULTAS MIPA
UNIVERSITAS SEBELAS MARET
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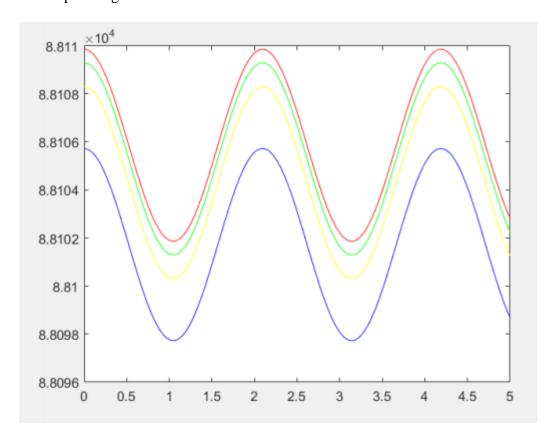
## - Kasus 1

### a. Source Code

```
DALMASMAteri Kullah/Sem 3/Metode Numerik/Praktikum/Respons/Respons/Logics/Sulya Azalia Dearn/Nasus1.m

| Comment | Find |
```

# b. Output Program



#### - Kasus 2

### a. Source Code

```
| DOLMAS/Materi Kullah/Sem 3/Metode Numerik/Praktikum/Pesporal/Pesporal M051053 (Jalya Azalia Deann/kasus2.m*

| DOLMAS/Materi Kullah/Sem 3/Metode Numerik/Praktikum/Pesporal/Pesporal M051053 (Jalya Azalia Deann/kasus2.m*

| DOLMAS/Materi Kullah/Sem 3/Metode Numerik/Praktikum/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pesporal/Pespor
```

## b. Output Program

```
>> A = [1,0.5,0.025,0; 0.8,0.05,3.5,1; 0.2,2.5,0.5,1.5; 0,0.3,0.7,1.2]
  0
  0.20000000000000 \\ 2.5000000000000 \\ 0.50000000000000 \\ 1.50000000000000
            0 0.3000000000000 0.700000000000 1.2000000000000
>> b = [18000; 49000; 46500; 17600]
b =
     18000
     49000
     46500
     17600
>> EliminasiGaussJordan(A,b)
ans =
  1.0e+04 *
  1.172442463748836
  1.208194758547294
  0.938406279100705
  0.617214314221099
```

#### Kasus 3

#### a. Source Code

```
| DNUNS(Materi Kullah)Sem 31Metode Nomerik/Praktikum/Responsin/Mo51053 Kalya Azaka Deann/kasus3.m*
| DNUNS(Materi Kullah)Sem 31Metode Nomerik/Praktikum/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Responsin/Re
```

## b. Output Program

```
>> f = inline('h^3-30*h^2+600/pi')
f =
       Inline function:
        f(h) = h^3-30*h^2+600/pi
>> RegulasiFalsi(f,1,3,100,0.0001)
      1.000000 3.000000 2.513887 161.985932 -52.014068
                    3.000000 2.881847 161.985932 -52.014068
2.881847 2.792412 161.985932 -52.014068
       2.513887
                                                                         3.423e+01
      2.513887
                                                                         2.117e+01
       2.513887
                    2.792412 2.724715 161.985932 -52.014068
                    2.724715 2.673472 161.985932 -52.014068
2.673472 2.634684 161.985932 -52.014068
      2.513887
                                                                          4.329e+00
      2.513887
                                                                          1.028e+00
       2.634684
                    2.673472 2.664044 161.985932 -52.014068
2.664044 2.656908 161.985932 -52.014068
                                                                          3.021e+00
       2.634684
                                                                          2.033e+00
       2.634684
                    2.656908 2.651506 161.985932 -52.014068
 10
      2.634684
                    2.651506 2.647417 161.985932 -52.014068
2.647417 2.644322 161.985932 -52.014068
                                                                          7.234e-01
       2.634684
                                                                          2.970e-01
 11
       2.634684
                    2.644322 2.641980 161.985932 -52.014068
                                                                          2.540e-02
 13
      2.641980
                    2.644322 2.643753 161.985932 -52.014068
                                                                          2.186e-01
       2.641980
                    2.643753 2.643322 161.985932 -52.014068
 15
      2.641980
                    2.643322 2.642996 161.985932 -52.014068
2.642996 2.642749 161.985932 -52.014068
                                                                          1.144e-01
      2.641980
                                                                          8.043e-02
                    2.642749 2.642562 161.985932 -52.014068
2.642562 2.642420 161.985932 -52.014068
       2.641980
                                                                          5.470e-02
 18
      2.641980
                                                                          3.523e-02
                    2.642420 2.642313 161.985932 -52.014068
       2.641980
                    2.642313 2.642232 161.985932 -52.014068
2.642232 2.642171 161.985932 -52.014068
 20
      2.641980
                                                                          9.341e-03
      2.641980
                                                                          8.975e-04
 21
       2.641980
                    2.642171 2.642124 161.985932 -52.014068
                                                                          5.494e-03
 23
      2.642124
                    2.642171 2.642160 161.985932 -52.014068
                                                                          6.559e-04
 24
      2.642160
                    2.642171 2.642168 161.985932 -52.014068
                                                                          5.199e-04
                   2.642168 2.642166 161.985932 -52.014068
2.642166 2.642164 161.985932 -52.014068
 25
       2 642160
                                                                          2.341e-04
      2.642160
                                                                         1.781e-05
ans =
   2 642164430110411
```