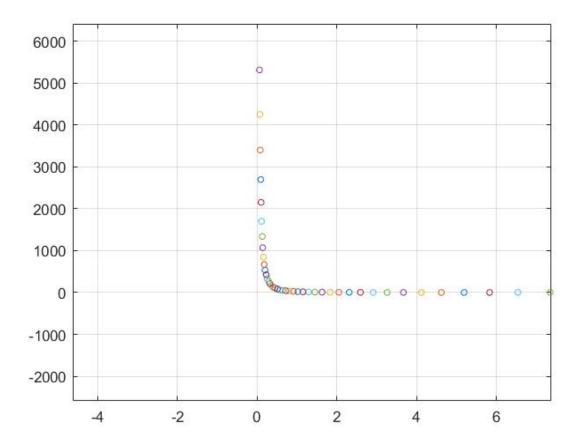
```
disp('Grupo 5')
Grupo 5
disp('NRC: 7543')
NRC: 7543
date
ans =
   '02-Jan-2022'
clock
ans =
  1.0e+03 *
 Columns 1 through 3
   Columns 4 through 6
   0.0230000000000 0.0250000000000 0.026977000000000
clc
help fac
  <strong>fac</strong> Resuleve el ajuste de curvas
  <strong>Modos de entrada</strong>
  [X,Y,r] = <strong>fac</strong>(M)
  [X,Y,r,Ec,Ea,Er] = <strong>fac</strong>(M,m)
  [X,Y,r,Ec,Ea,Er,y] = <strong>fac</strong>(M,m,x)
  <strong>Valores de entrada</strong>
  <strong>M:</strong> Matriz de pares ordenados [xi;yi]
  <strong>m:</strong> Tipo de ajuste:
   0 - Lineal
    1 - Cuadratico
    2 - Cubico
    3 - Exponencial
  <strong>x:</strong> Valor a comprovar dentro del ajuste ya efectuado
 <strong>Valores de Salida</strong>
 <strong>X:</strong> Lista de puntos en x
  <strong>Y:</strong> Lista de puntos en y
  <strong>r:</strong> Coeficiente de correlacion -1 < r < 1
 <strong>Ec:</strong> Ecuacion nde regresion
 <strong>Ea:</strong> Error absoluto
  <strong>Er:</strong> Error relativo
  <strong>y:</strong> Valor de Ec evaluado en x
data = readtable('C:\Users\ismae\OneDrive\Escritorio\Ejercicio.csv');
[ Warning: Column headers from the file were modified to make them
valid MATLAB identifiers before creating variable names for the
table. The original column headers are saved in the
VariableDescriptions property.
Set 'PreserveVariableNames' to true to use the original column
headers as table variable names.]
data = data{:,:}
```

## 1.0e+03 \*

## Columns 1 through 3

```
0.011860000000000
                     0.107200000000000
                                          0.319000000000000
0.010400000000000
                     0.085300000000000
                                          0.240000000000000
0.009230000000000
                     0.067430000000000
                                          0.190000000000000
0.008250000000000
                     0.053480000000000
                                          0.150000000000000
0.007350000000000
                     0.042410000000000
                                          0.1200000000000000
0.006540000000000
                     0.033630000000000
                                          0.096000000000000
0.005830000000000
                                          0.078000000000000
                     0.026670000000000
0.005190000000000
                     0.021150000000000
                                          0.060000000000000
0.004620000000000
                     0.016770000000000
                                          0.048000000000000
0.004120000000000
                     0.013300000000000
                                          0.038000000000000
0.003670000000000
                     0.010550000000000
                                          0.030000000000000
                     0.008360000000000
0.003260000000000
                                          0.024000000000000
0.002910000000000
                     0.006630000000000
                                          0.019000000000000
0.002590000000000
                     0.005260000000000
                                          0.015000000000000
0.002310000000000
                     0.004170000000000
                                          0.012000000000000
0.002050000000000
                     0.003310000000000
                                          0.009500000000000
0.001830000000000
                     0.002630000000000
                                          0.007500000000000
0.001630000000000
                                          0.006000000000000
                     0.002080000000000
0.001450000000000
                     0.001650000000000
                                          0.004800000000000
0.001290000000000
                     0.001310000000000
                                          0.003700000000000
0.001150000000000
                     0.001040000000000
                                          0.003200000000000
0.001020000000000
                     0.000820000000000
                                          0.002500000000000
0.000910000000000
                     0.000650000000000
                                          0.002000000000000
                                          0.001600000000000
0.000810000000000
                     0.000520000000000
0.000720000000000
                     0.000410000000000
                                          0.001200000000000
0.000640000000000
                     0.000330000000000
                                          0.000920000000000
0.000570000000000
                     0.000260000000000
                                          0.000730000000000
                     0.0002000000000000
0.000510000000000
                                          0.000580000000000
                     0.000160000000000
                                          0.000460000000000
0.000450000000000
0.000400000000000
                     0.000130000000000
                                          0.000370000000000
0.000360000000000
                     0.000100000000000
                                          0.000290000000000
                                          0.000230000000000
0.000320000000000
                     0.00008000000000
0.000290000000000
                     0.000060000000000
                                          0.000180000000000
0.000250000000000
                     0.000050000000000
                                          0.000150000000000
0.000230000000000
                     0.000040000000000
                                          0.000110000000000
0.000200000000000
                     0.000030000000000
                                          0.000090000000000
0.000180000000000
                     0.000030000000000
                                          0.000070000000000
0.000160000000000
                     0.000020000000000
                                          0.000060000000000
0.000140000000000
                     0.000020000000000
                                          0.000050000000000
0.000130000000000
                     0.000010000000000
                                          0.000040000000000
0.000110000000000
                     0.100000000000000
                                          0.000030000000000
0.000100000000000
                     0.000010000000000
                                          0.000020000000000
0.000090000000000
                     0.000010000000000
                                          0.000020000000000
0.00008000000000
                     0.000010000000000
                                          0.000010000000000
0.000070000000000
                                      0
                                          0.000010000000000
                                      0
0.000060000000000
                                          0.00001000000000
                                      0
0.000060000000000
                                          0.000010000000000
                                      0
0.000050000000000
                                          0.000010000000000
```

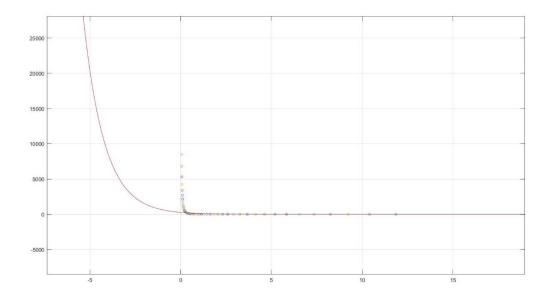
```
0.000160000000000
   0.000200000000000
   0.000250000000000
   0.000320000000000
   0.001400000000000
   0.001500000000000
   0.001630000000000
   0.000800000000000
   0.001010000000000
   0.001270000000000
   0.001700000000000
   0.002030000000000
   0.002560000000000
   0.003230000000000
   0.004070000000000
   0.005130000000000
   0.006490000000000
   0.008170000000000
   0.010300000000000
   0.012900000000000
   0.016340000000000
   0.020730000000000
   0.026150000000000
   0.032690000000000
   0.041460000000000
   0.051500000000000
   0.056400000000000
   0.085000000000000
   0.106200000000000
   0.130700000000000
   0.170000000000000
   0.212500000000000
   0.265600000000000
   0.333300000000000
   0.425000000000000
   0.531200000000000
   0.669300000000000
   0.845800000000000
   1.069000000000000
   1.338000000000000
   1.700000000000000
   2.152000000000000
   2.6960000000000000
   3.400000000000000
   4.250000000000000
   5.312000000000000
   6.800000000000000
   8.500000000000000
M = [data(:,1) data(:,4)];
fac(M)
fac(M)
  -0.334914704410231
disp('Aqui va la fig1')
```



z =

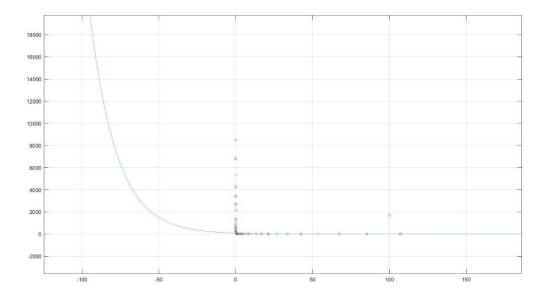
5.592831378555232 -0.865089392500211

```
(4723409678356775*exp(-
(7792032531412239*x)/9007199254740992))/17592186044416
```



M = [data(:,2) data(:,4)];
fac(M)
fac(M)
-0.156814165857852

disp('Aqui va la fig3')
Aqui va la fig3



fac(M,3)
fac(M,m)
Ajuste Exponencial

A =

1.0e+04 \*

 $\begin{array}{cccc} 0.00480000000000 & 0.06182800000000 \\ 0.06182800000000 & 4.102090919999999 \end{array}$ 

```
B =
```

1.0e+02 \*

1.763757912329286

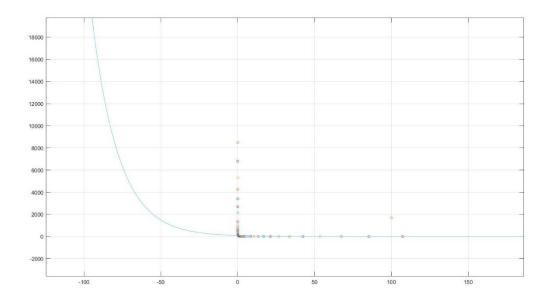
3.651634059162800

z =

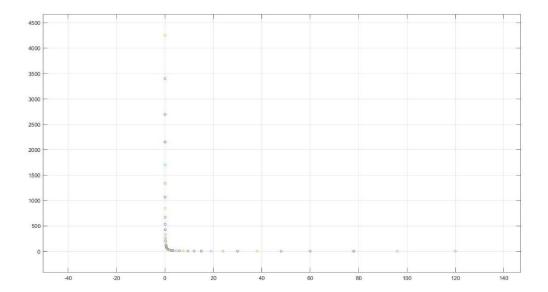
4.417453946013890

-0.057679365620331

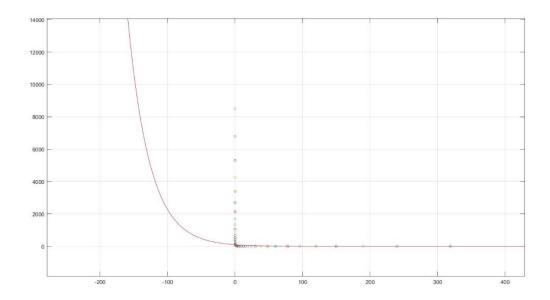
(5832512434595535\*exp(-(8312472624470011\*x)/144115188075855872))/70368744177664



M = [data(:,3) data(:,4)];
fac(M)
fac(M)
-0.218962349497221



```
fac(M,3)
fac(M,m)
Ajuste Exponencial
A =
   1.0e+05 *
   0.00048000000000 0.014854500000000
   0.014854500000000 2.574610111000000
в =
  1.0e+03 *
  0.176375791232929
  -1.089085342785370
z =
   4.632552999253917
  -0.030958129005527
(3616113135601029*exp(-
(2230768292054033*x)/72057594037927936))/35184372088832
disp('Aqui va la fig6')
Aqui va la fig6
```



diary off