

```
import pandas as pd
df = pd.read_csv("/content/drive/MyDrive/Colab Notebooks/poly_fit.csv")
print(df)
```

```
x = df.iloc[:,0]
y = df.iloc[:,1]
```

```
import numpy as np
```

```
import scipy.optimize as opt
def func(t,a,b):
    return a*t**5+b*t**4
opt.curve_fit(func, x, y, p0=(4, 0.1))

(array([-1.29514705e-05, 3.90695816e-04]),
 array([[ 6.75962127e-12, -1.07920699e-10],
        [-1.07920699e-10, 1.74029653e-09]]))
```

```
import matplotlib.pyplot as plt
lst=[]
for i in x:
    print(i)
    y1=-1.29514705e-05*i**5 + 3.90695816e-04*i**4
    lst.append(y1)
plt.plot(x,lst,'b-' , label="fitted circle")
plt.scatter(x,y,c='red', label='data')
plt.legend(loc='best', labelspace=0.1 )
plt.grid()
plt.title('Fit Exponential')
```

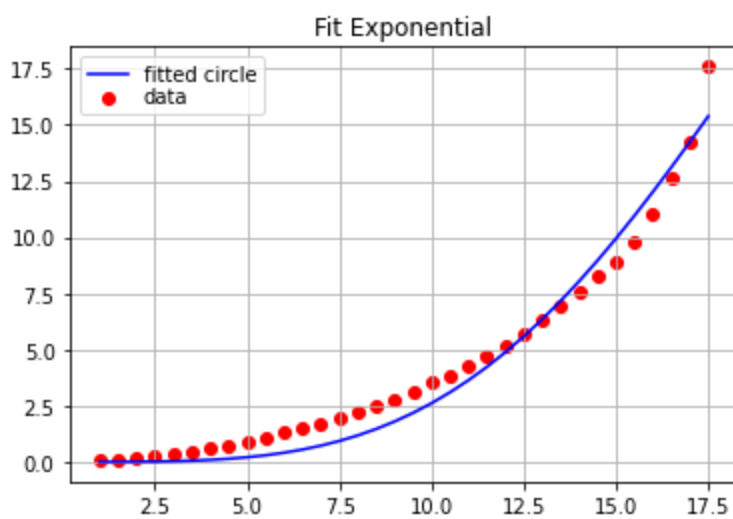
```
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
-
```

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8.0
9.0
9.5
10.0
10.5
11.0
11.5
12.0
12.5
13.0
13.5
14.0
14.5
15.0
15.5
16.0
16.5
17.0
17.5

Text(0.5, 1.0, 'Fit Exponential')



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