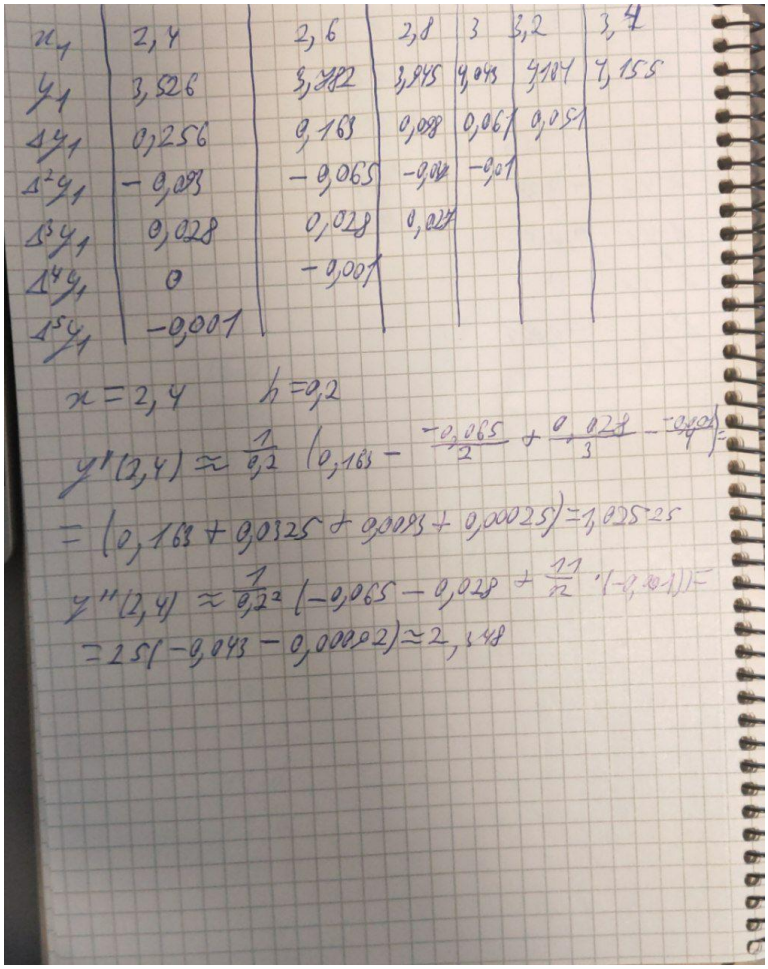
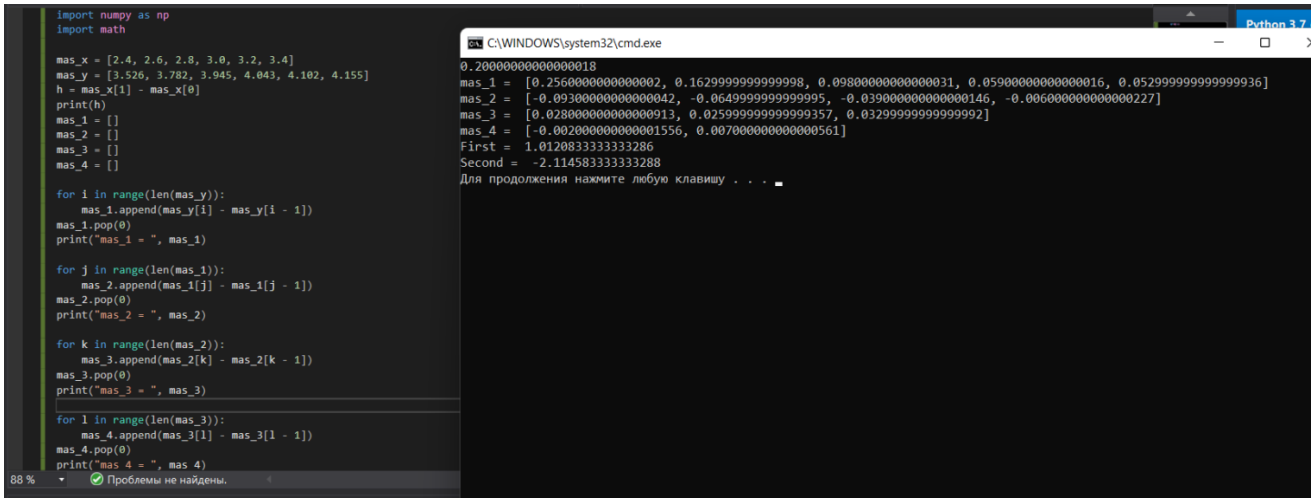
Аналітичні розрахунки



Код



```
import numpy as np
import math

mas_x = [2.4, 2.6, 2.8, 3.0, 3.2, 3.4]
mas_y = [3.526, 3.782, 3.945, 4.043, 4.102, 4.155]
h = mas_x[1] - mas_x[0]
print(h)
mas_1 = []
mas_2 = []
mas_3 = []
mas_4 = []

for i in range(len(mas_y)):
    mas_1.append(mas_y[i] - mas_y[i - 1])
mas_1.pop(0)
print("mas_1 = ", mas_1)

for j in range(len(mas_1)):
    mas_2.append(mas_1[j] - mas_1[j - 1])
mas_2.pop(0)
print("mas_2 = ", mas_2)

for k in range(len(mas_2)):
    mas_3.append(mas_2[k] - mas_2[k - 1])
mas_3.pop(0)
print("mas_3 = ", mas_3)

for l in range(len(mas_3)):
    mas_4.append(mas_3[l] - mas_3[l - 1])
mas_4.pop(0)
print("mas 4 = ", mas 4)
```

```
C:\WINDOWS\system32\cmd.exe
0.20000000000000018
mas_1 =  [0.2560000000000002, 0.1629999999999998, 0.0980000000000031, 0.0590000000000016, 0.052999999999999936]
mas_2 =  [-0.09300000000000042, -0.06499999999999995, -0.039000000000000146, -0.006000000000000227]
mas_3 =  [0.028000000000000913, 0.025999999999999357, 0.032999999999999992]
mas_4 =  [-0.002000000000001556, 0.007000000000000561]
First =  1.0120833333333286
Second =  -2.114583333333288
Для продолжения нажмите любую клавишу . . .
```