

Figure 1

emacs25@vella-chemla-X510UA

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import math  
from matplotlib import \*  
import matplotlib.pyplot as plt  
from mpmath import \*

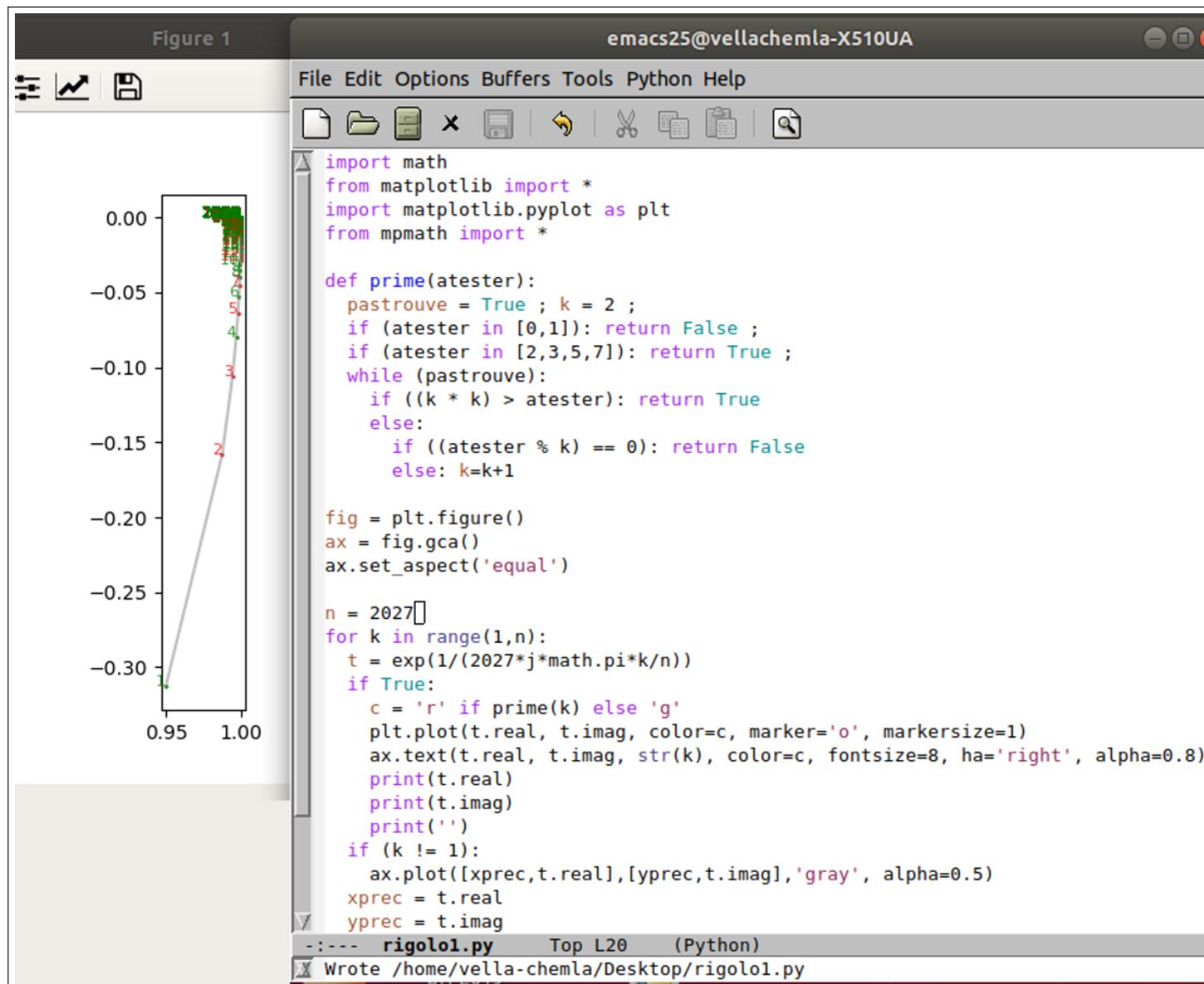
def prime(atester):  
 pastrouve = True ; k = 2 ;  
 if (atester in [0,1]): return False ;  
 if (atester in [2,3,5,7]): return True ;  
 while (pastrouve):  
 if ((k \* k) > atester): return True  
 else:  
 if ((atester % k) == 0): return False  
 else: k=k+1

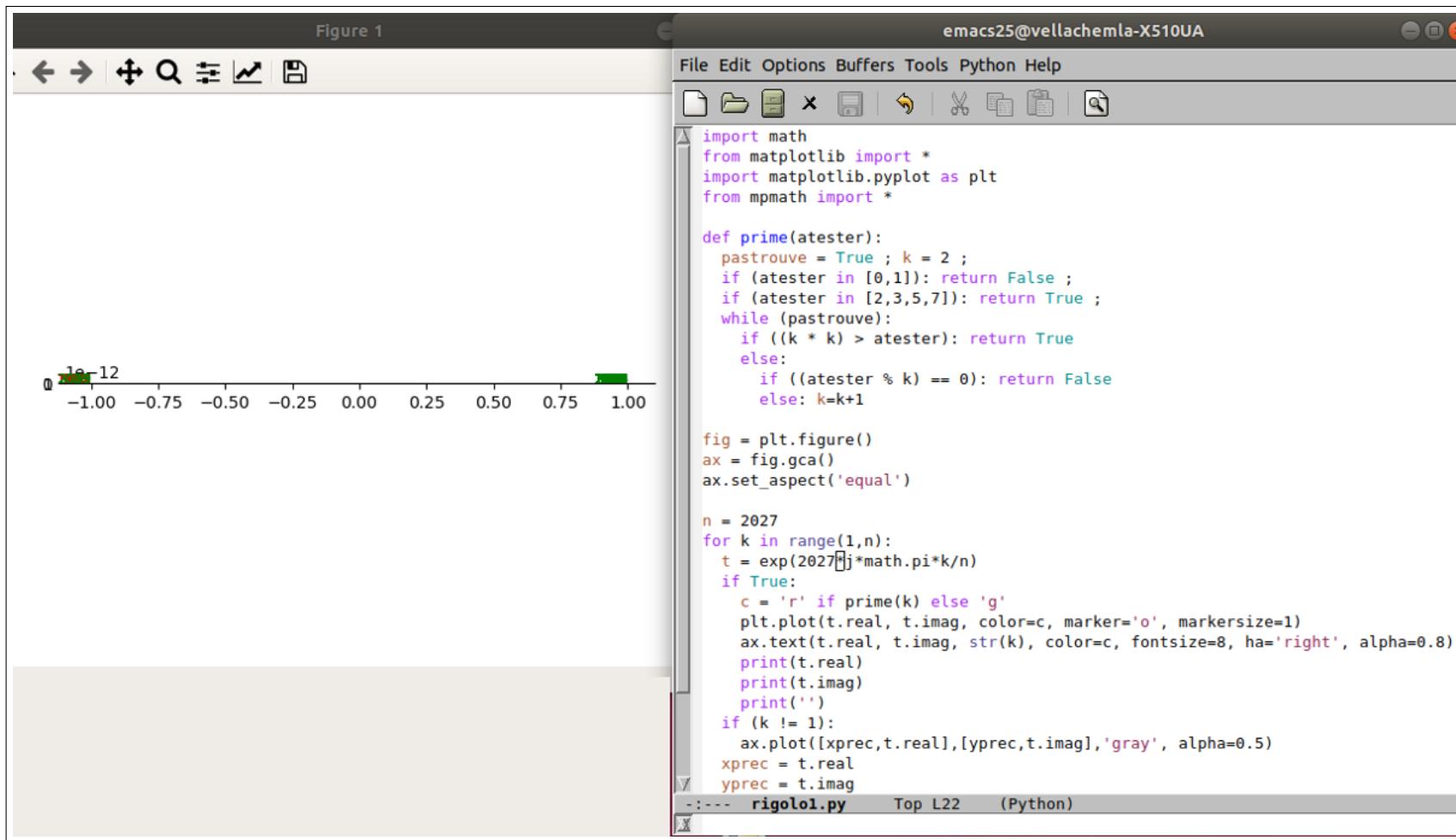
fig = plt.figure()  
ax = fig.gca()  
ax.set\_aspect('equal')

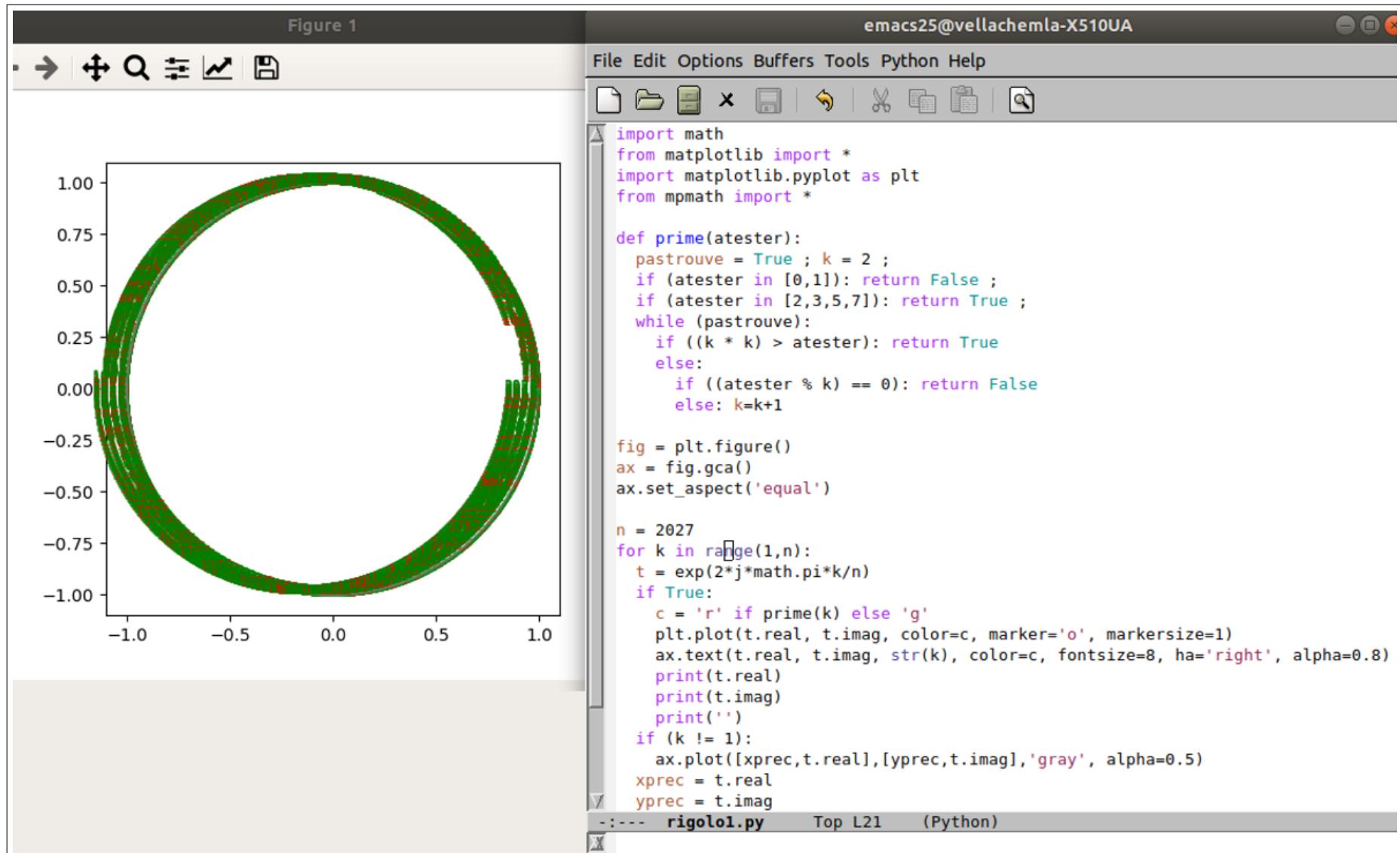
n = 100  
for k in range(1,n):  
 t = exp(1/(2027\*j\*math.pi\*k/n))  
 if True:  
 c = 'r' if prime(k) else 'g'  
 plt.plot(t.real, t.imag, color=c, marker='o', markersize=1)  
 ax.text(t.real, t.imag, str(k), color=c, fontsize=8, ha='right', alpha=0.8)  
 print(t.real)  
 print(t.imag)  
 print('')  
 if (k != 1):  
 ax.plot([xprec,t.real],[yprec,t.imag], 'gray', alpha=0.5)  
 xprec = t.real  
 yprec = t.imag

-:---- rigolo1.py Top L22 (Python)

Wrote /home/vella-chemla/Desktop/rigolo1.py







Terminal

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```
0.999764602804529  
-0.0216965199767945  
  
0.999827053321467  
-0.0185974042949975  
  
0.999879897082074  
-0.0154981099215658  
  
0.999923133578604  
-0.0123986666358129  
  
0.999956762395622  
-0.00929910421848815  
  
0.999980783210008  
-0.00619945245148238  
  
0.999995195790962  
-0.0030997411175456  
  
-1.0999984986839184 1.099994895527861 -1.099996697103807 1.099996697103807  
(base) vella-chemla@vellachemla-X510UA:~/Desktop$
```

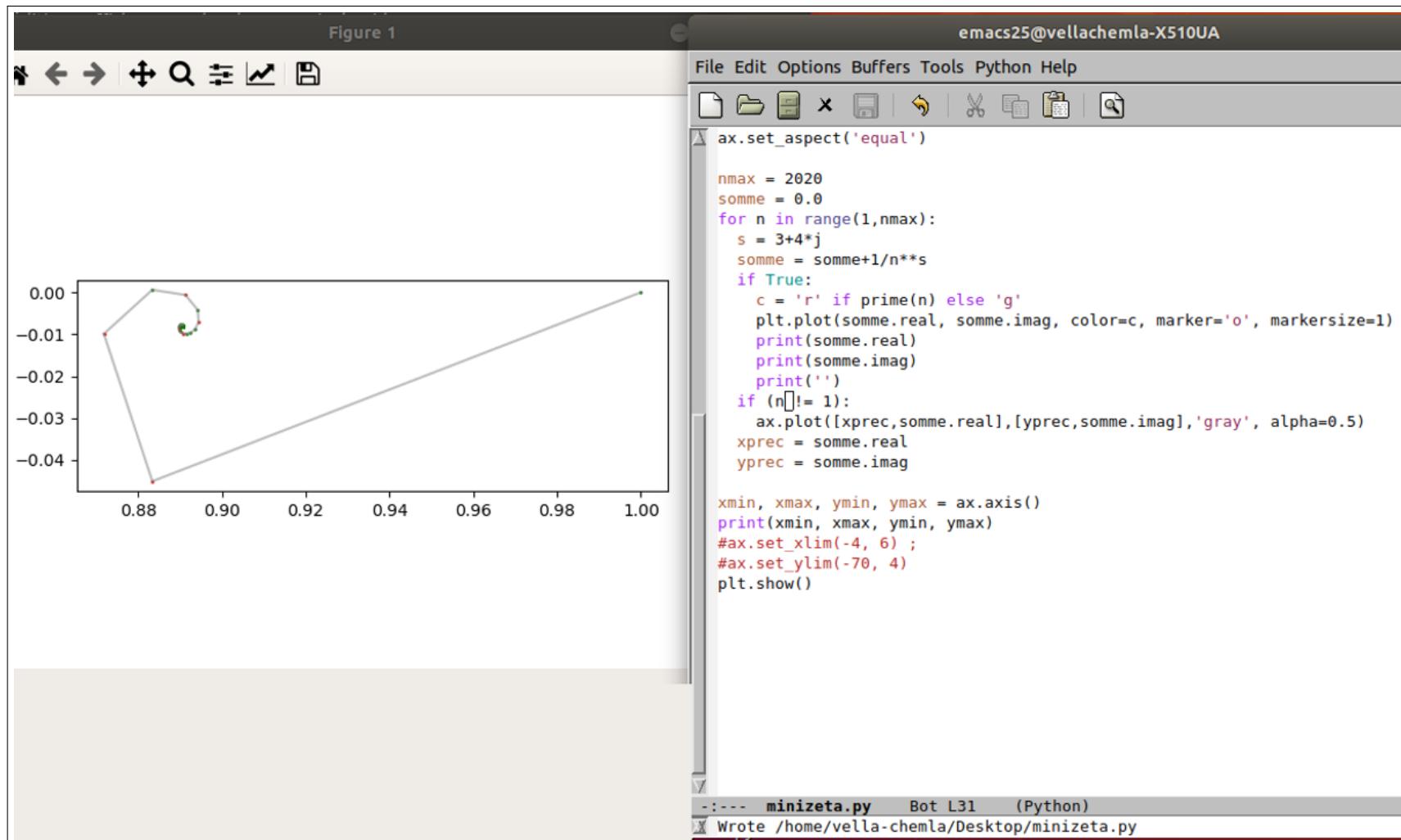
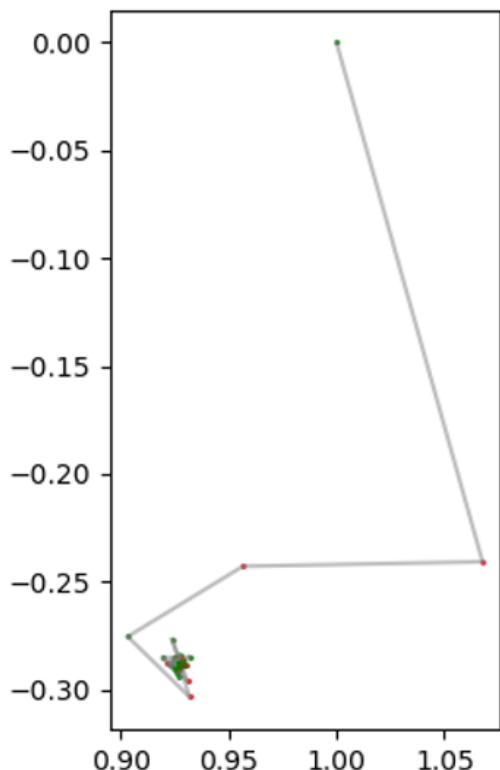
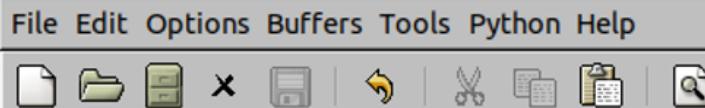


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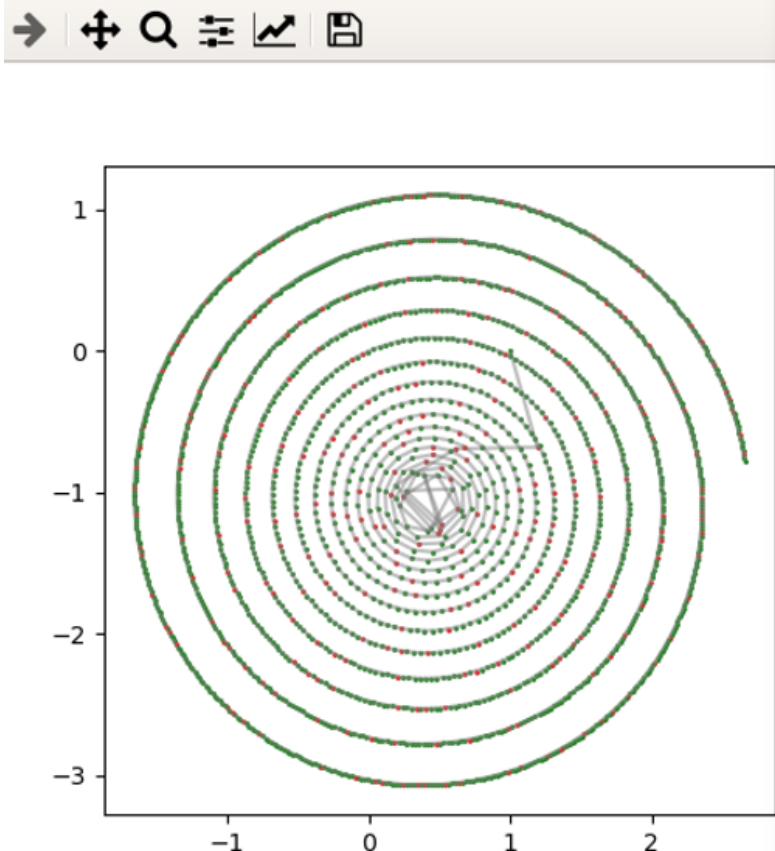
```
ax.set_aspect('equal')

nmax = 2020
somme = 0.0
for n in range(1,nmax):
    s = 2+20j
    somme = somme+1/n**s
    if True:
        c = 'r' if prime(n) else 'g'
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)
        print(somme.real)
        print(somme.imag)
        print('')
    if (n != 1):
        ax.plot([xprec,somme.real],[yprec,somme.imag], 'gray', alpha=0.5)
    xprec = somme.real
    yprec = somme.imag

xmin, xmax, ymin, ymax = ax.axis()
print(xmin, xmax, ymin, ymax)
#ax.set_xlim(-4, 6);
#ax.set_ylim(-70, 4)
plt.show()
```

-:---- minizeta.py Bot L23 (Python)  
Wrote /home/vella-chemla/Desktop/minizeta.py

Figure 1



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```
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ax.set_aspect('equal')  
  
nmax = 2020  
somme = 0.0  
for n in range(1,nmax):  
    s = 0.5+20*j  
    somme = somme+1/n**s  
    if True:  
        c = 'r' if prime(n) else 'g'  
        plt.plot(somme.real, somme.imag, color=c, marker='o', markersize=1)  
        print(somme.real)  
        print(somme.imag)  
        print()  
    if (n != 1):  
        ax.plot([xprec,somme.real],[yprec,somme.imag], 'gray', alpha=0.5)  
    xprec = somme.real  
    yprec = somme.imag  
  
xmin, xmax, ymin, ymax = ax.axis()  
print(xmin, xmax, ymin, ymax)  
#ax.set_xlim(-4, 6);  
#ax.set_ylim(-70, 4)  
plt.show()
```

minizeta.py Bot L23 (Python)  
Wrote /home/vella-chemla/Desktop/minizeta.py

