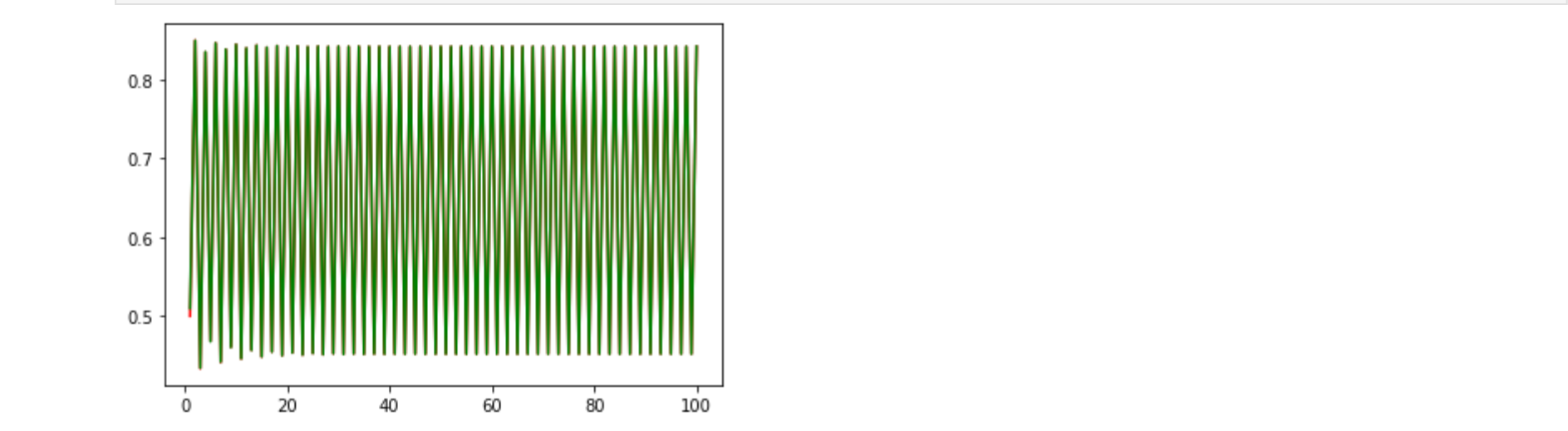
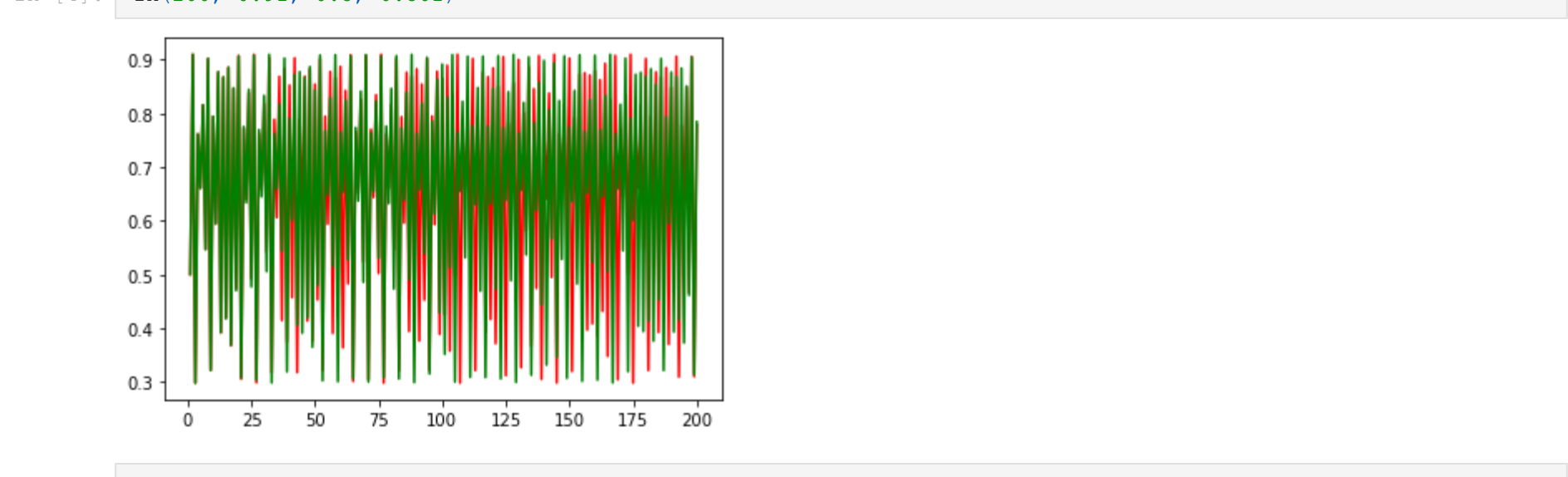
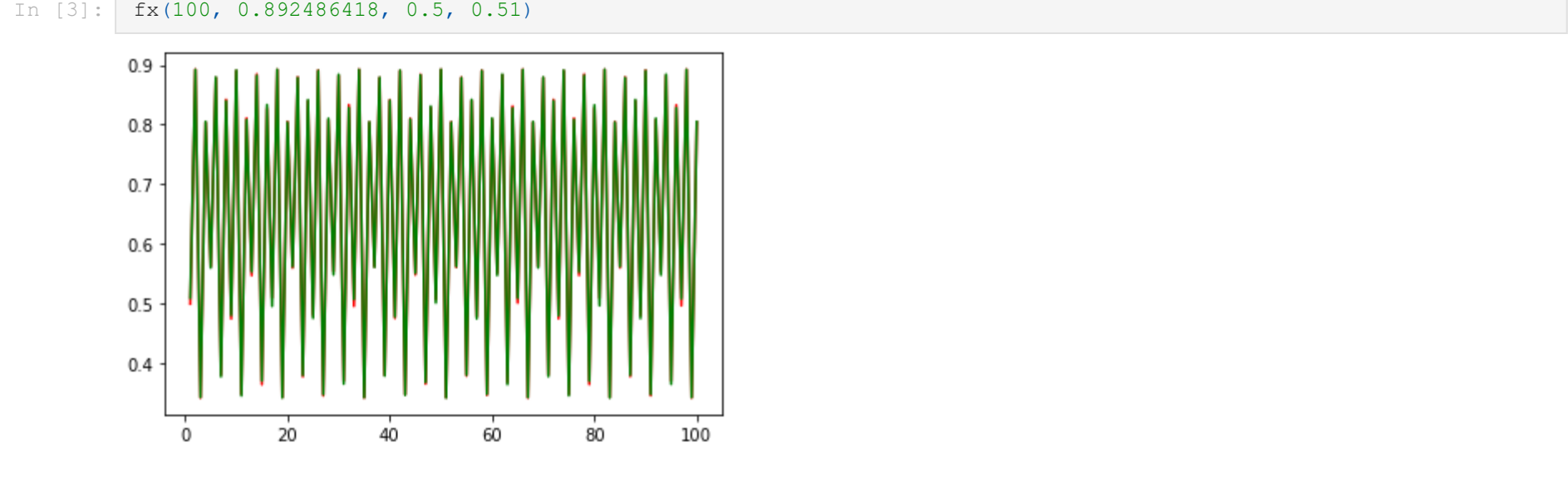


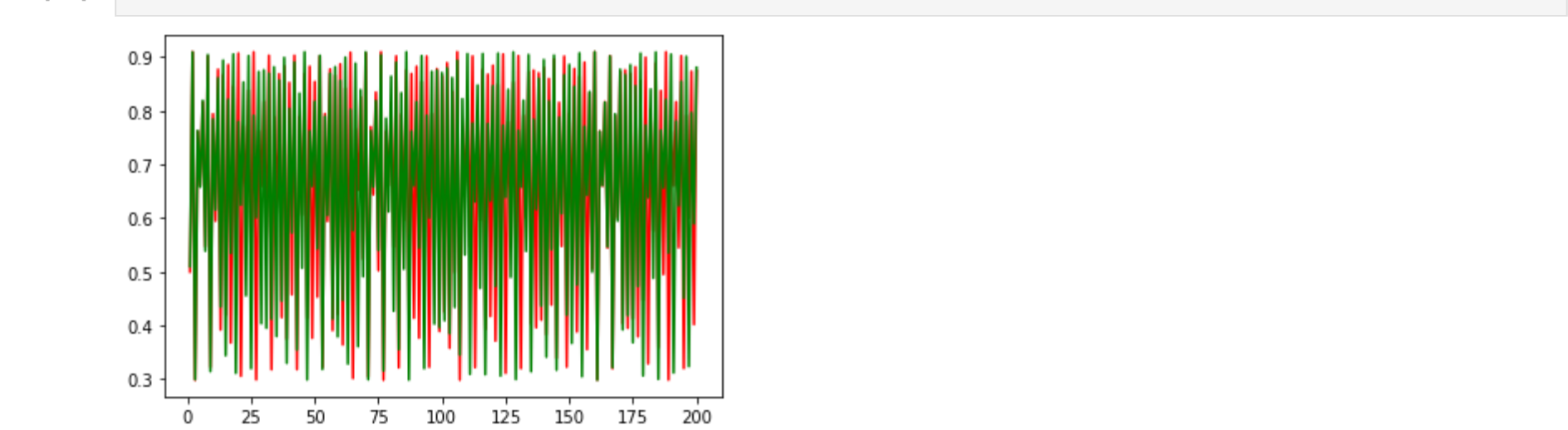
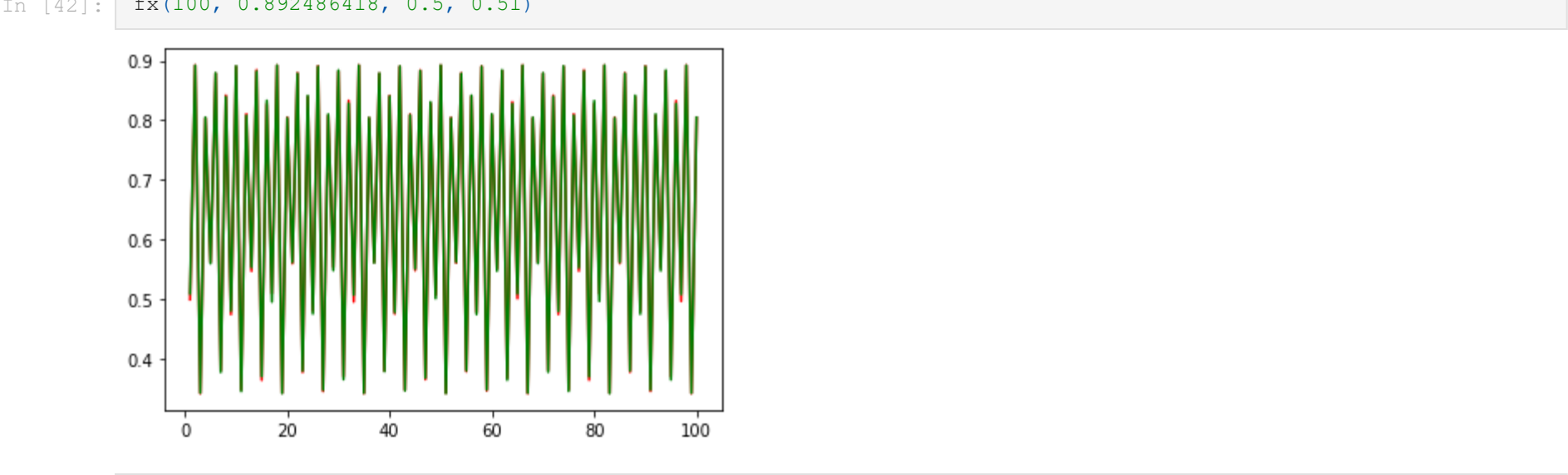
```
In [2]: import numpy as np
import matplotlib.pyplot as plt
def fx(n, r, x0, x1):
    y = [x0]
    y1 = [x1]
    a = [1]
    def f(x, r):
        b = 4 * r * x * (1 - x)
        return b
    for i in range(n-1):
        a.append(i+2)
        y.append(f(y[-1], r))
        y1.append(f(y1[-1], r))

    plt.plot(a, y, 'r', a, y1, 'g')
    plt.show
```



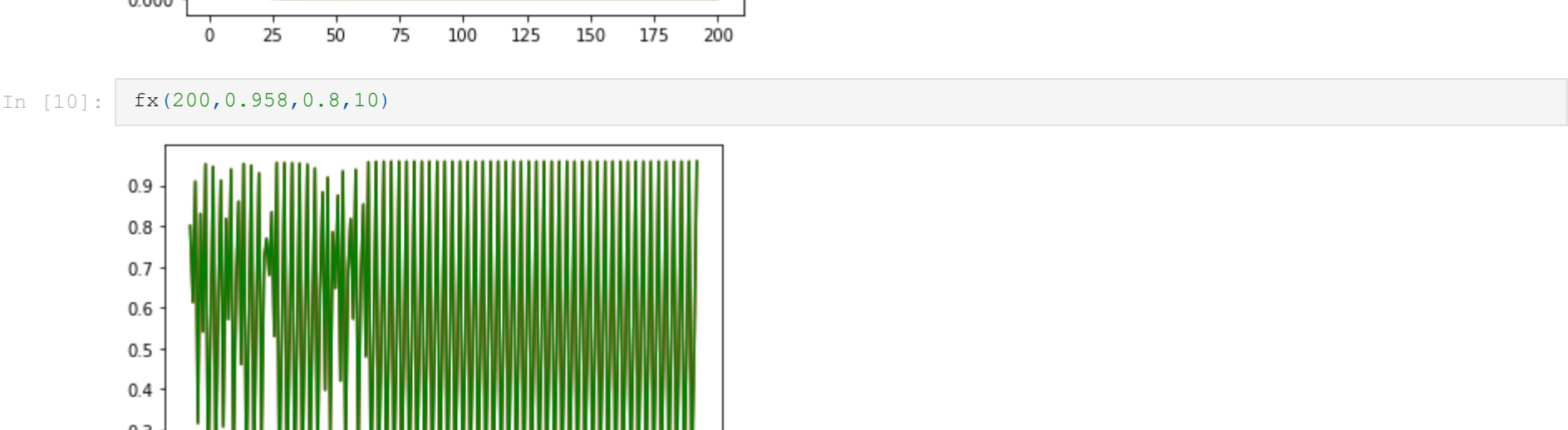
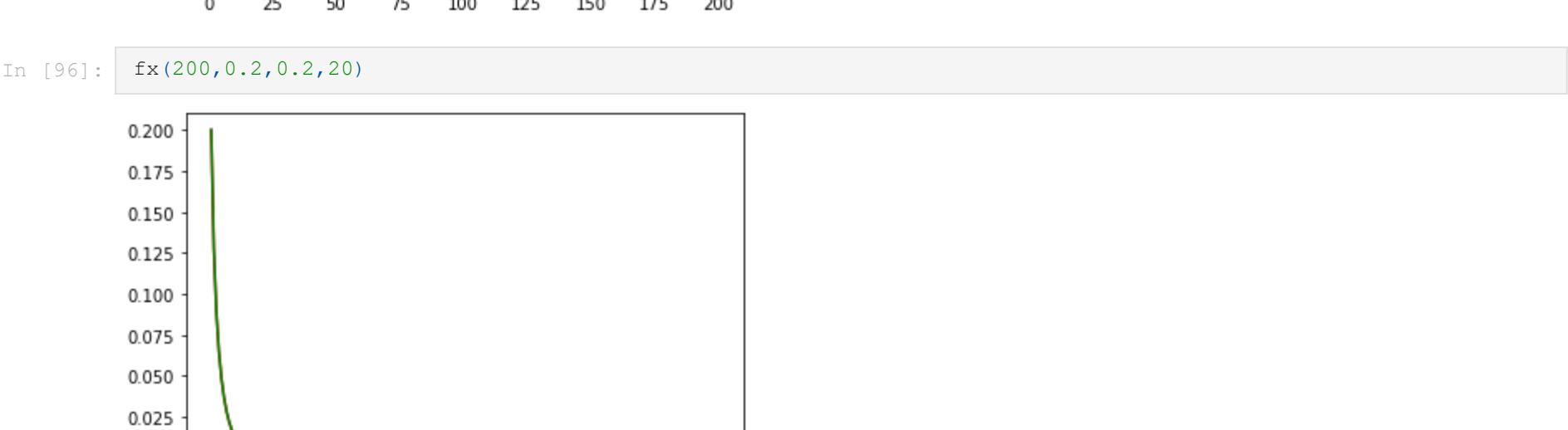
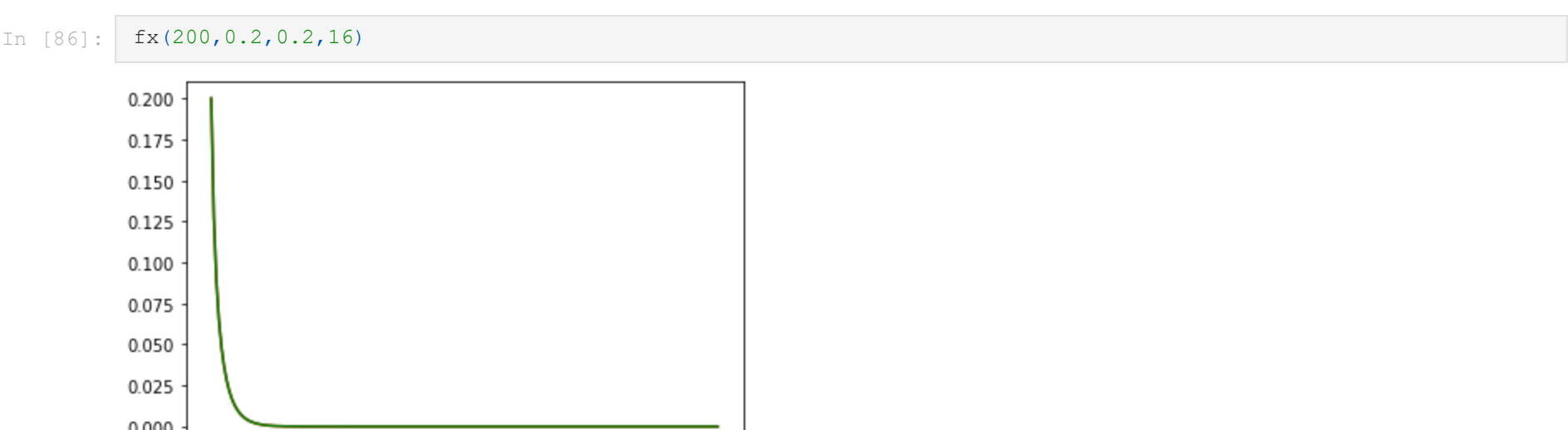
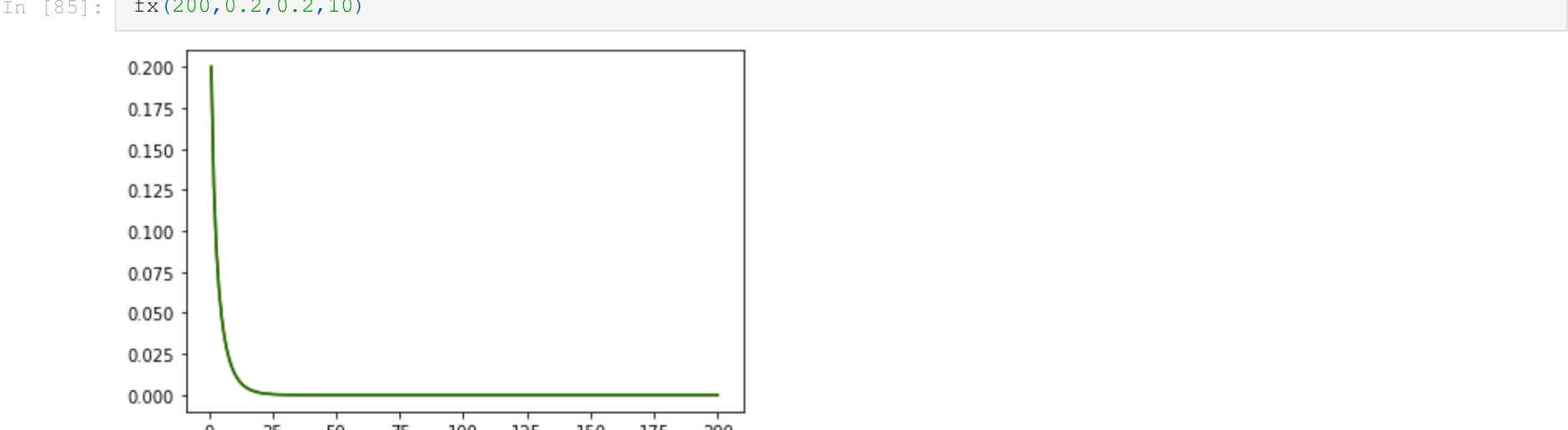
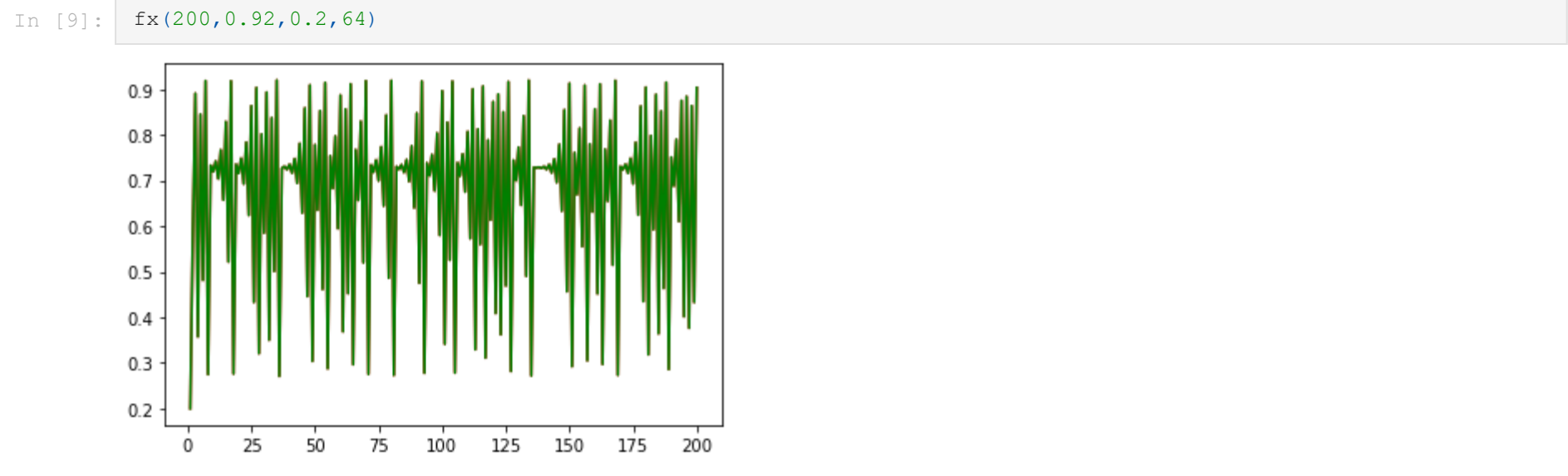
```
In [41]: import numpy as np
import matplotlib.pyplot as plt
def fx(n, r, x0, x1):
    y = [x0]
    y1 = [x1]
    a = [1]
    def f(x, r):
        b = 4 * r * x * (1 - x)
        b=b/10
        b=b*10
        return b
    for i in range(n-1):
        a.append(i+2)
        y.append(f(y[-1], r))
        y[-1] = y[-1]/10
        y[-1] = y[-1]*10
        y1.append(f(y1[-1], r))
        y1[-1] = y1[-1]/10
        y1[-1]=y1[-1]*10

    plt.plot(a, y, 'r', a, y1, 'g')
    plt.show
```



```
In [6]: import matplotlib.pyplot as plt
def fx(n, r, x0, l):
    y = [x0]
    y1 = [x0]
    a = [1]
    def f(x, r):
        b = 4 * r * x * (1 - x)
        return b
    for i in range(n-1):
        a.append(i+2)
        y.append(f(y[-1], r))
        k = f(y1[-1], r)/1
        k = k *1
        y1.append(k)

    plt.plot(a, y, 'r', a, y1, 'g')
    plt.show
```



```
In [91]: import numpy as np
import matplotlib.pyplot as plt
def fx(n, r, x0, x1):
    y = [x0]
    y1 = [x1]
    a = [1]
    def f(x, r):
        b = 4 * r * x * (1 - x)
        b=b/10
        b=b*10
        return b
    for i in range(n-1):
        a.append(i+2)
        y.append(f(y[-1], r))
        y[-1] = y[-1]/10
        y[-1] = y[-1]*10
        y1.append(f(y1[-1], r))
        y1[-1] = y1[-1]/10
        y1[-1]=y1[-1]*10

    plt.plot(a, y, 'r', a, y1, 'g')
    plt.show
```

