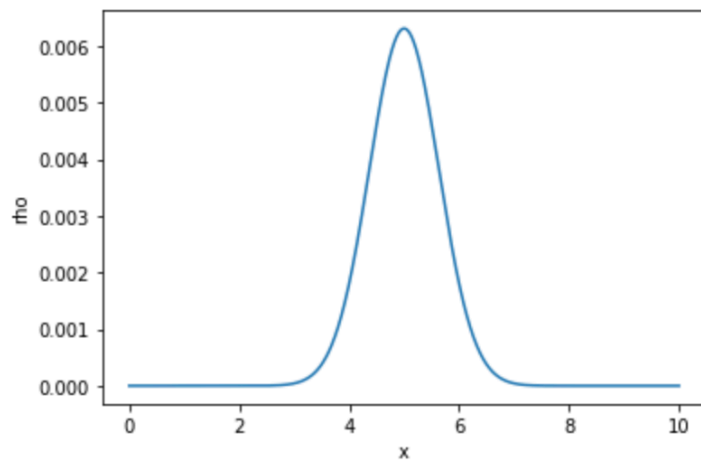


HW9_7

The value I got for the moment was usually in range .199 - .200

HW9_8

The plot that I get for the final density is



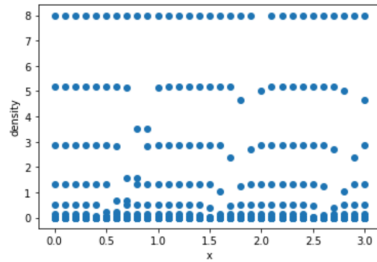
HW9_9

The values at the center of the box seem to match that from the C program. There seems to be only a slight deviation in the values.

PYTHON

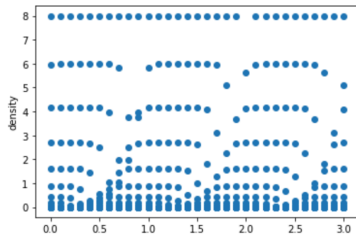
Enter the Number of Iterations 10

V at box center 0.0



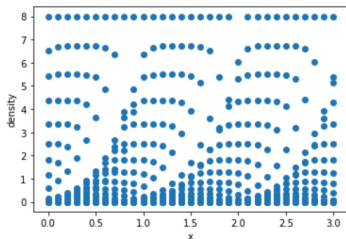
Enter the Number of Iterations 20

V at box center 0.0085201570764184



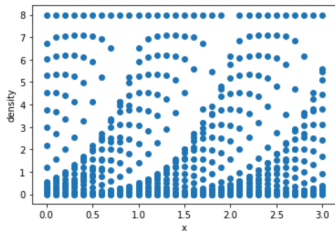
Enter the Number of Iterations 50

V at box center 0.3505669468199043



Enter the Number of Iterations 100

V at box center 1.2217421332705796



C

```
"/Users/Austin/Desktop/PHY 40/Homework/6/cmake-build-debug/6"

Enter number of iterations 10

V at box center 0.000008

Process finished with exit code 0
```

```
"/Users/Austin/Desktop/PHY 40/Homework/6/cmake-build-debug/6"

Enter number of iterations 20

V at box center 0.011604

Process finished with exit code 0
```

```
"/Users/Austin/Desktop/PHY 40/Homework/6/cmake-build-debug/6"

Enter number of iterations 50

V at box center 0.367847

Process finished with exit code 0
```

```
"/Users/Austin/Desktop/PHY 40/Homework/6/cmake-build-debug/6"

Enter number of iterations 100

V at box center 1.237277

Process finished with exit code 0
```