# nevh

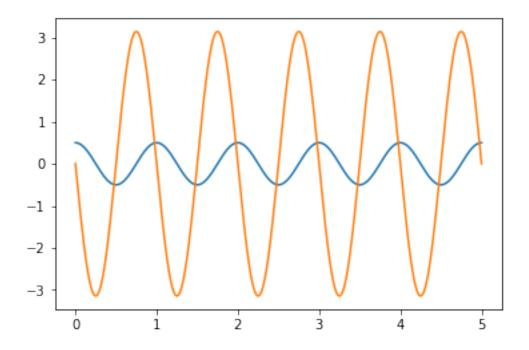
## August 13, 2019

# 1 NEVH - Numerical Evolution from the Hamiltonian

```
In [1]: import numpy as np
    import matplotlib.pyplot as plt
    import sys

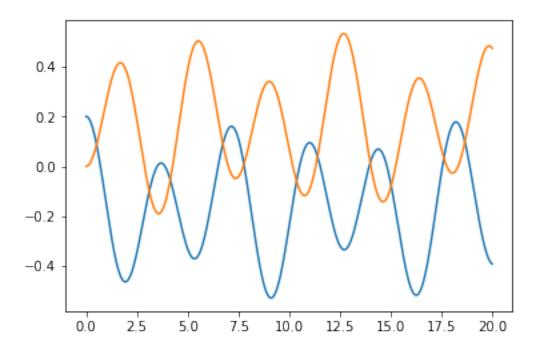
#The following makes modules in src/ accessible from the (current) test/ dir
    sys.path.append("../src")
    import nevh
```

#### 1.1 Simple harmonic motion

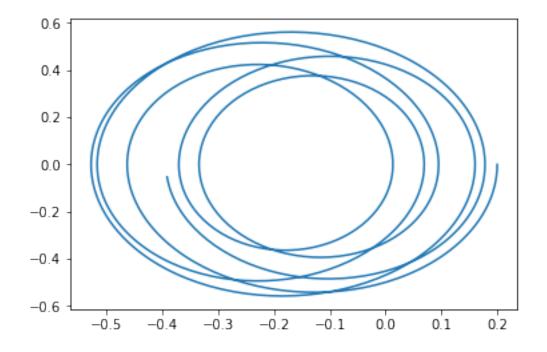


## 1.2 Two equal coupled oscilators

Two equal masses are coupled to one another and to the walls of a box with equal springs.



In [10]: plt.plot(x1,p1); # Phase space trajectory for m1



In []: