

Python 3.6.5 |Anaconda, Inc.| (default, Mar 29 2018, 13:32:41) [MSC v.1900 64 bit (AMD64)]
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IPython 6.4.0 -- An enhanced Interactive Python.

```
In [1]: runfile('C:/Users/hoops/OneDrive/Documents/School/ME EN 2450 Numerical Methods/  
HW6/HW6b.py', wdir='C:/Users/hoops/OneDrive/Documents/School/ME EN 2450 Numerical Methods/  
HW6')
```

Part 1:

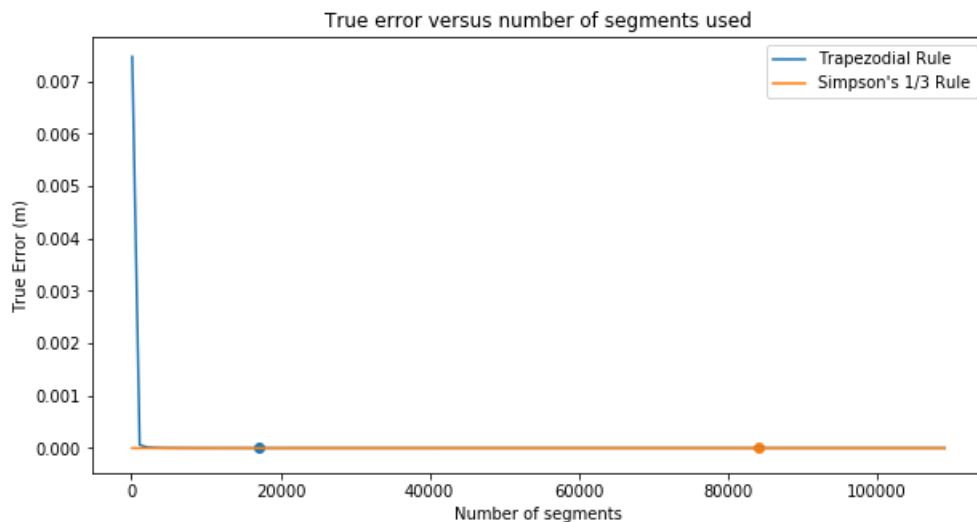
Using the Trapezoidal Rule Integration with 10 segments the distance fallen after 10s = 333.42982m

Using the Simpson's 1/3 Rule with 10 segments distance the fallen after 10s = 334.18282m

Part 2:

The optimum number of segments using the Trapezoidal Rule for this problem is 17100

The optimum number of segments using Simpson's 1/3 Rule for this problem is 84100



```
In [2]:
```