```
In [8]: runfile('C:/Users/tzave/ComputationalPhysics/Assignment4/ex1.py', wdir='C:/Users/
tzave/ComputationalPhysics/Assignment4')
Reloaded modules: diffEquation
Analytic
Integral: 130.5

Trapezoid
{'integral': 130.50117587954807, 'iterations': 10, 'evaluations': 1024}
Deviation: 0.00117587954807

Simpson 1/3
{'integral': 130.50023174285889, 'iterations': 6, 'evaluations': 64}
Deviation: 0.000231742858887

In [9]: runfile('C:/Users/tzave/ComputationalPhysics/Assignment4/ex2.py', wdir='C:/Users/
tzave/ComputationalPhysics/Assignment4')
Reloaded modules: integration
Euler
h=0.005, iterations=283
h=0.010, iterations=142
h=0.050, iterations=29
h=0.100, iterations=15

Runge-Kutta 4th
h=0.005, iterations=282
h=0.010, iterations=141
h=0.050, iterations=28
h=0.100, iterations=14

In [10]: runfile('C:/Users/tzave/ComputationalPhysics/Assignment4/ex3.py', wdir='C:/
Users/tzave/ComputationalPhysics/Assignment4')
Reloaded modules: diffEquation
Max Range @27.61 deg: 3.0647
Max Range @25.78 deg: 3.0631

In [11]:
```