

```
1 #!/usr/bin/env python
2
3 import newton
4 import unittest
5 import numpy as N
6
7 class TestNewton(unittest.TestCase):
8     def testLinear(self):
9         f = lambda x : 3.0 * x + 6.0
10        solver = newton.Newton(f, tol=1.e-15, maxiter=2)
11        x = solver.solve(2.0)
12        self.assertEqual(x, -2.0)
13
14 if __name__ == "__main__":
15     unittest.main()
16
```