

```
1 /usr/local/bin/python3.13 /Users/gertha/Library/CloudStorage/GoogleDrive-andygerth1@gmail
  .com/My Drive/USC_MSAA/ASTE586/Computer_Project/ASTE586_ComputerProject_Part1.py
2 Maximum Error for x1: 7.327e-15
3 Maximum Error for x2: 7.438e-15
4 Maximum Error for x3: 1.110e-05
5 Maximum Error for x4: 1.175e-05
6 Tolerance based on  $x_1^2(t) + x_2^2(t) + x_3^2(t) + x_4^2(t) - 2$ : [-2.340e-05, 0.000e
  +00]
7
8 Maximum Error for x1: 7.550e-15
9 Maximum Error for x2: 7.661e-15
10 Maximum Error for x3: 1.193e-05
11 Maximum Error for x4: 1.194e-05
12 Tolerance based on  $x_1^2(t) + x_2^2(t) + x_3^2(t) + x_4^2(t) - 2$ : [-2.340e-05, 2.346e
  -09]
13
14 2025-02-09 13:37:33.085 Python[38090:3323804] +[IMKClient subclass]: chose
  IMKClient_Modern
15 2025-02-09 13:37:33.085 Python[38090:3323804] +[IMKInputSession subclass]: chose
  IMKInputSession_Modern
16
17 Process finished with exit code 0
18
```