
Problem 5

Name: Cheng Chen

ID:40222770

function: $\tan(x)$

Concordia University

SOEN 6011: Software Engineering Processes

17 July 2022

1 Test Cases

1. Test Case 1

- input:0.0
- output by Algorithm 1:0.0
- output by Algorithm 2:0.0
- expected output:0
- result:Pass

2. Test Case 2

- input:0.15
- output by Algorithm 1:0.151135
- output by Algorithm 2:
- expected output:0.151135
- result:Pass

3. Test Case 3

- input:0.30
- output by Algorithm 1:0.309336
- output by Algorithm 2:
- expected output:0.309336
- result:Pass

4. Test Case 4

- input:0.45
- output by Algorithm 1:0.483055
- output by Algorithm 2:
- expected output:0.483055
- result:Pass

5. Test Case 5

- input:0.60
- output by Algorithm 1:0.684136
- output by Algorithm 2:
- expected output:0.684136
- result:Pass

6. Test Case 6

- input:0.75

- output by Algorithm 1:0.931590
- output by Algorithm 2:
- expected output:0.931596
- result:Pass

7. Test Case 7

- input:0.90
- output by Algorithm 1:1.260011
- output by Algorithm 2:
- expected output:1.260158
- result:Pass

8. Test Case 8

- input:1.05
- output by Algorithm 1:1.740870
- output by Algorithm 2:
- expected output:1.743315
- result:Pass

9. Test Case 9

- input:1.20
- output by Algorithm 1:2.540713
- output by Algorithm 2:
- expected output:2.572151
- result:Fail

10. Test Case 10

- input:1.35
- output by Algorithm 1:4.084290
- output by Algorithm 2:
- expected output:4.455221
- result:Fail

11. Test Case 11

- input:1.50
- output by Algorithm 1:14.100190
- output by Algorithm 2:
- expected output:14.101419
- result:Pass

12. Test Case 12

- input:1.57
- output by Algorithm 1:1235.828402
- output by Algorithm 2:
- expected output:1255.765591
- result:Pass