**Report of MACM 316 Computing Assignment #1**

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C1:

地图的截图

描述已自动生成

C2:

n yn

0 0.09531018

1 0.046898202

2 0.03101798

3 0.023153529

Reason why numbers differ from those in Table 1.1 is that the error in yn at each step is damped out in the next step, so our numbers are getting more and more accurate than the numbers in Table 1.1.

4 0.01846471

5 0.015352901

6 0.013137658

7 0.011480561

8 0.010194391

9 0.009167203

10 0.008327966

11 0.007629436

12 0.007038976

13 0.006533316

14 0.006095415

15 0.005712514

16 0.005374864

17 0.005074893

18 0.004806628

19 0.004565296

20 0.004347036

C3:

Exact value s = 1.07667404746858

If we use the series directly, then we need 3161787 terms. However, if we compute s by alternative term provided, it only requires 147 terms.

**Code for C1:**

手机屏幕截图

描述已自动生成

**Code for C2:**

手机屏幕截图

描述已自动生成

**Code for C3:**

手机屏幕截图

描述已自动生成手机屏幕截图

描述已自动生成Using original series: Using alternative series: