

F14106155 張言薰 HW11

執行結果：

C1 以 sin 函數為基底函數，C2 以 hat function 為基底函數

```
(ipcvdU) (base) iris@Yen-Hsun-2 F14106155_numerical_hw11 % /Users/iris/anacon
/iris/Library/CloudStorage/GoogleDrive-iriscdrive@gmail.com/我的雲端硬碟/NCKU
hw11/hw11.py
```

x	(a) Shooting	(b) Finite-Diff	(c1) Var_sin	(c2) Var_hat
0.00	1.000000	1.000000	1.000000	1.000000
0.10	1.016164	1.016532	1.075245	1.253583
0.20	1.058516	1.059102	1.160689	1.489071
0.30	1.123616	1.124251	1.254250	1.701852
0.40	1.208203	1.208890	1.354189	1.886751
0.50	1.309558	1.310313	1.458434	2.037858
0.60	1.425592	1.426194	1.565581	2.148342
0.70	1.554272	1.554570	1.674265	2.210211
0.80	1.693662	1.693822	1.783404	2.214017
0.90	1.842561	1.842642	1.892309	2.148479
1.00	2.000000	2.000000	2.000000	2.000000

