

## 數值方法作業 7

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### Question1:

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● chenyian@chenyiandeMacBook-Air-2 F54091196 % /opt/homebrew/bin/python3 /Users/chenyian/Desktop/F54091196/question1.py
(a)Jacobi Method Solution:
[1.17478856 1.64317358 2.44824809 3.05598067 3.94965767 3.09947644]

(b)Gauss-Seidel Method Solution:
[1.17478856 1.64317358 2.44824809 3.05598067 3.94965767 3.09947644]

(c)SOR Method Solution:
[1.17478856 1.64317358 2.44824809 3.05598067 3.94965767 3.09947644]

(d)Conjugate Gradient Method Solution:
[1.17462188 1.64240917 2.4472713 3.0562416 3.94977191 3.09912292]
```