

## E94111237\_numerical\_hw7

1.

```
Jacobi Solution: [1.17478856 1.64317358 2.44824809 3.05598067 3.94965767 3.09947644]  
Gauss-Seidel Solution: [1.17478856 1.64317358 2.44824809 3.05598067 3.94965767 3.09947644]  
SOR Solution (w=1.1): [1.17478856 1.64317358 2.44824809 3.05598067 3.94965767 3.09947644]  
Conjugate Gradient Solution: [1.17462188 1.64240917 2.4472713 3.0562416 3.94977191 3.09912292]
```