

1132\_數值方法 Numerical Method

**HW7**

Use Matlab

(a) Jacobi Method solution:

1.1748  
1.6432  
2.4482  
3.0560  
3.9497  
3.0995

(b) Gauss-Seidel Method solution:

1.1748  
1.6432  
2.4482  
3.0560  
3.9497  
3.0995

(c) SOR Method solution ( $\omega = 1.25$ ):

1.1748  
1.6432  
2.4482  
3.0560  
3.9497  
3.0995

(d) Conjugate Gradient Method solution:

1.1766  
1.6427  
2.4443  
3.0600  
3.9526  
3.0992