

1. Jacobi method

$X_1=1.174788$

$X_2=1.643173$

$X_3=2.448248$

$X_4=3.055980$

$X_5=3.949657$

$X_6=3.099476$

2. Gauss-seidel method

$X_1=1.174788$

$X_2=1.643174$

$X_3=2.448248$

$X_4=3.055981$

$X_5=3.949658$

$X_6=3.099476$

3. SOR method($w=1.25$)

$X_1=1.174788$

$X_2=1.643174$

$X_3=2.448248$

$X_4=3.055981$

$X_5=3.949658$

$X_6=3.099476$

4. Conjugate gradient method

$X_1=1.174291$

$X_2=1.660979$

$X_3=2.483612$

$X_4=3.022665$

$X_5=3.923776$

$X_6=3.094438$