

1.

```
Jacobi (39 iterations):
x1 = 1.483340
x2 = 2.266054
x3 = 3.957025
x4 = 3.667309
x5 = 4.623852
x6 = 4.562046
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Gauss-Seidel (22 iterations):
x1 = 1.483341
x2 = 2.266055
x3 = 3.957025
x4 = 3.667310
x5 = 4.623853
x6 = 4.562047
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SOR (13 iterations):
x1 = 1.483341
x2 = 2.266055
x3 = 3.957025
x4 = 3.667310
x5 = 4.623853
x6 = 4.562047
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Conjugate Gradient (6 iterations):
x1 = 1.483341
x2 = 2.266055
x3 = 3.957026
x4 = 3.667310
x5 = 4.623853
x6 = 4.562047
```