

## Numerical Optimization HW 3

1. Implement the dogleg and two dimensional minimization subproblem solvers
2. Implement the BFGS, DFP, and SR1update codes. Implement inverse versions where appropriate.
3. Implement the standard trust-region radius control outlined in the text.
4. Implement a trust-region Newton optimization code using your subroutines above.
5. Implement a trust region QuasiNewton optimization code using your subroutines above.
6. Test and discuss the performance of your codes on SIAM and Rosenbrock using the various options above.