Assignment

1. **Primary drawback of Newton’s method:**  
   Computing and inverting the exact Hessian matrix is computationally expensive.
2. **Secant equation:**
3. **Use of the secant equation:**  
   The secant equation imposes a condition that the updated Hessian approximation (or its inverse ) must satisfy, allowing the approximation to be constructed solely from gradient differences and step vectors without explicit second derivatives.