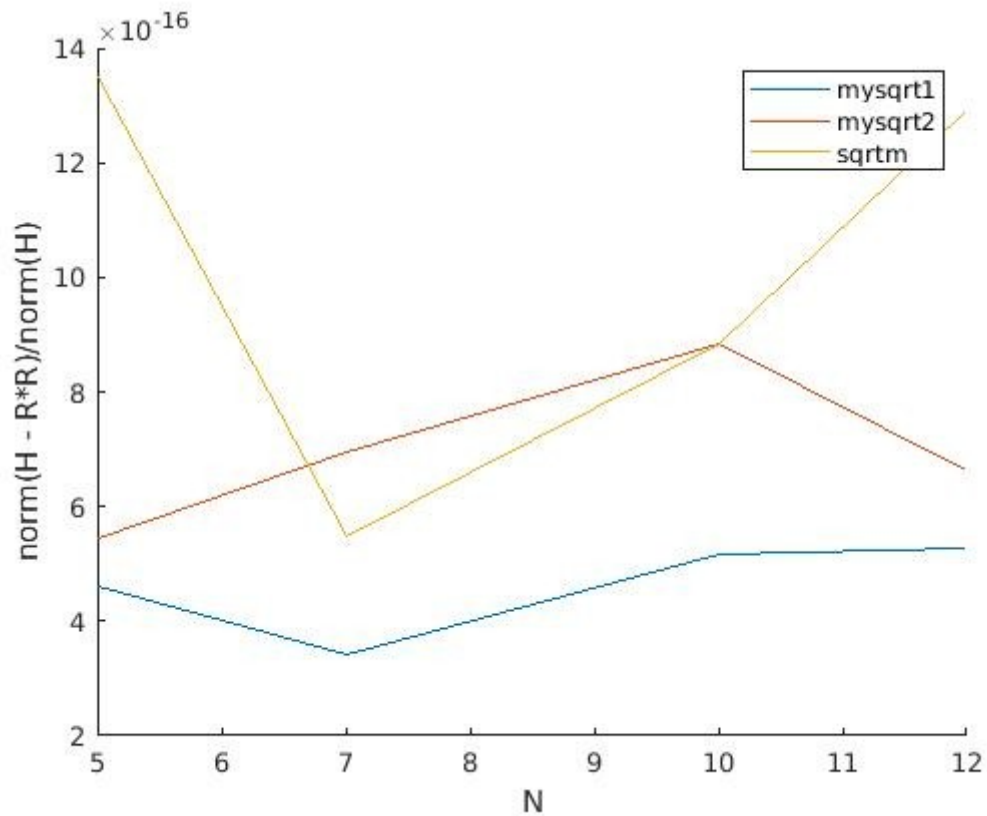


Lab Report 7

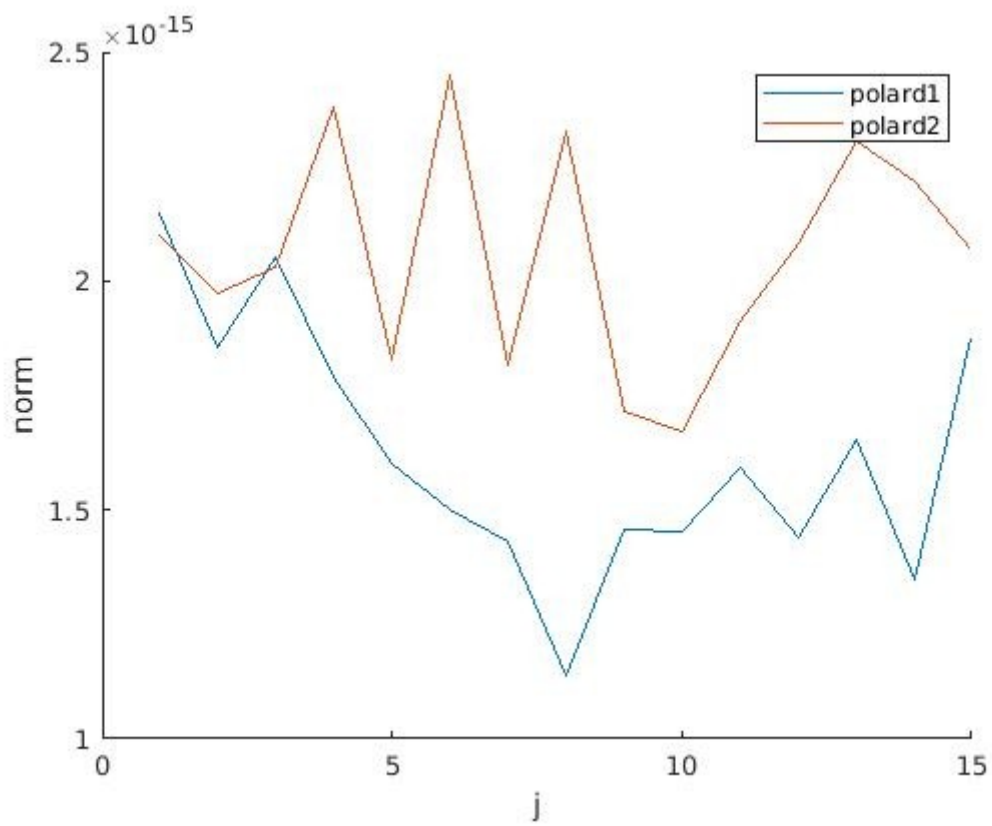
Kartik Sethi

Q2.



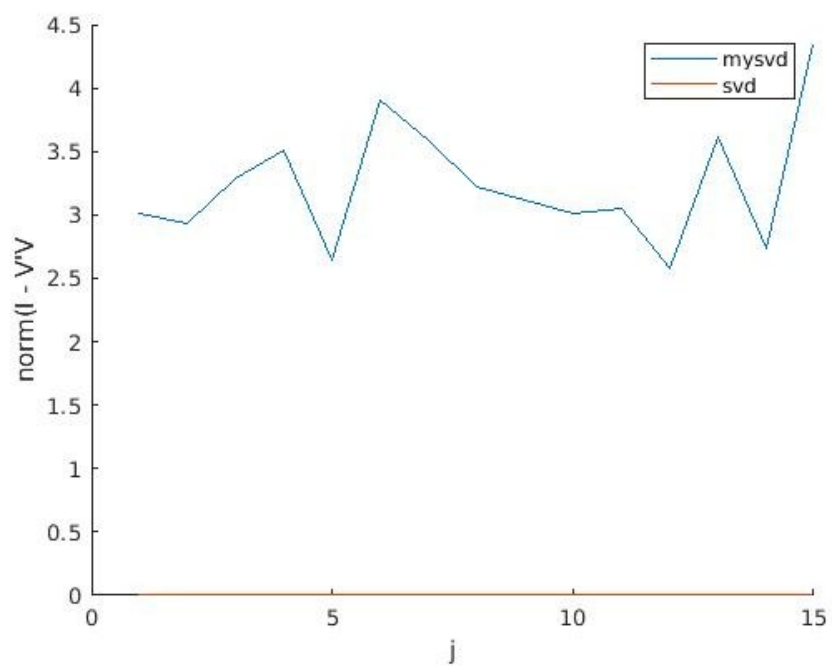
The function `mysqrt1` seems to give the least error for every N according to the graph and it also gives almost linearly increasing error with N unlike the other 2 methods.

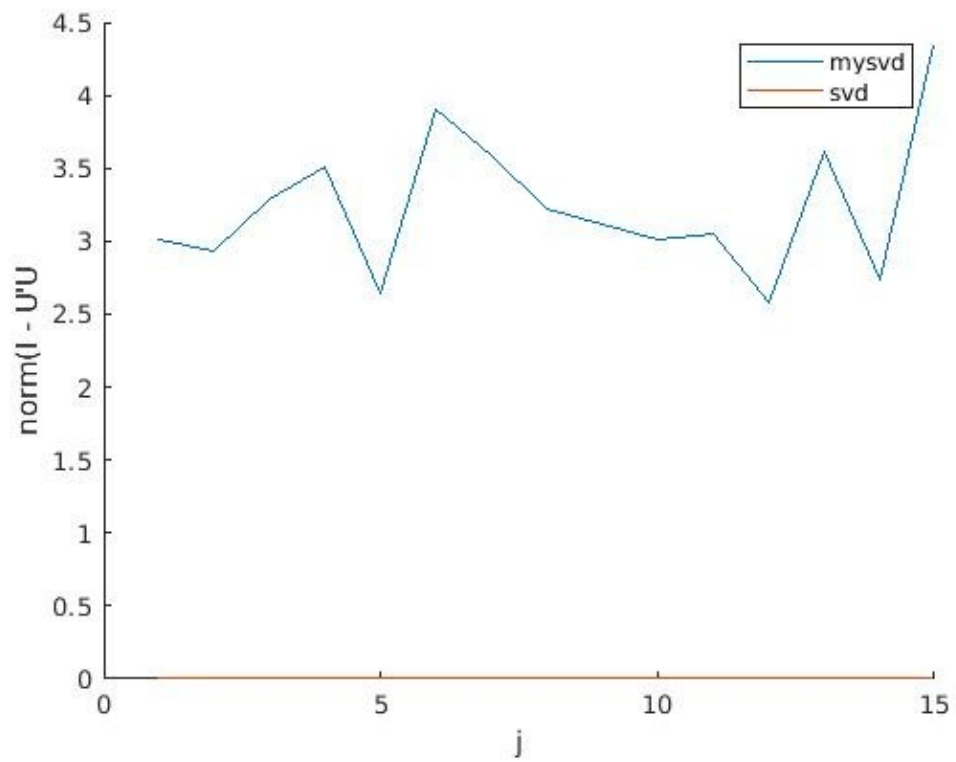
Q3.



According to the graph it seems like polard2 is marginally better than polard1 as far as $\|W_j^* W_j - I\|_2$ is concerned.

Q4.





As we can see that mysvd gives much higher error compared to the inbuilt matlab svd because of ill-conditioning of the matrices