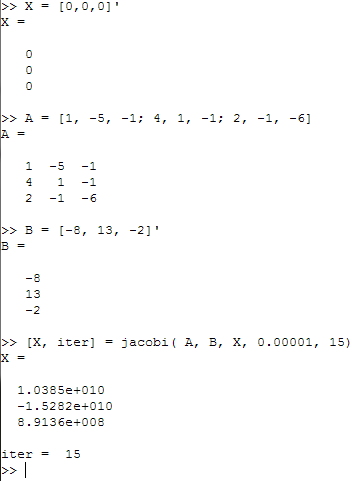
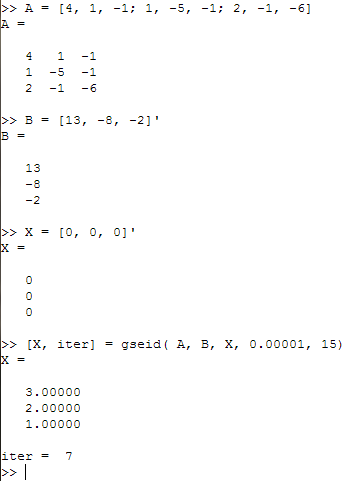
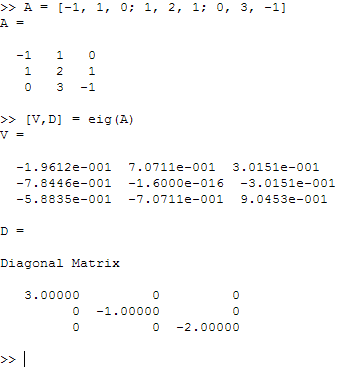
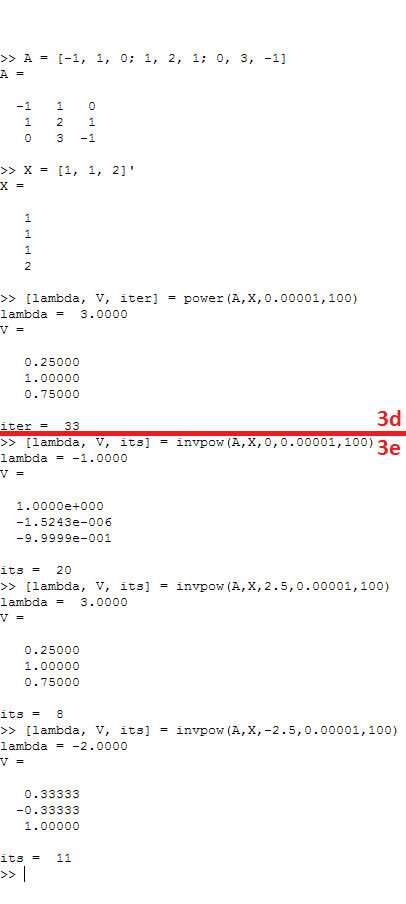
1)b)

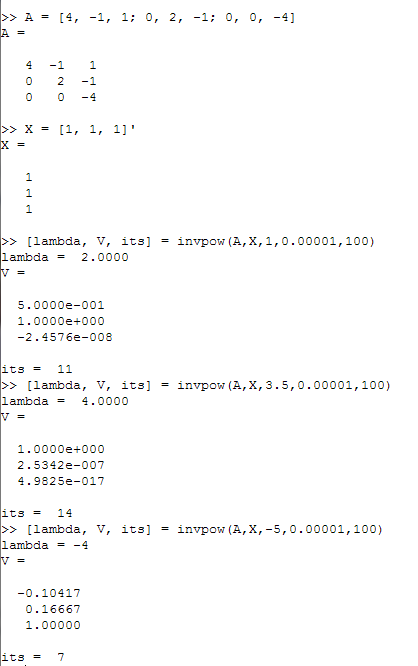
It does not converge

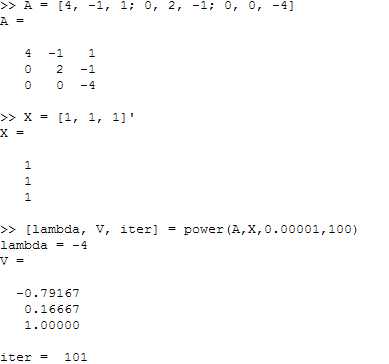
2)b)

It does converge in 7 iterations

3)b) 3)d) and e)



4b) 4c)



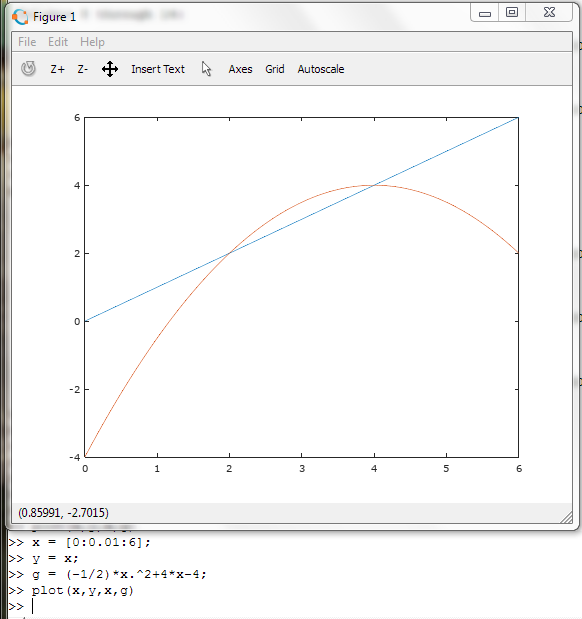
4d) invers power method second method converges

more often and after far less iterations.

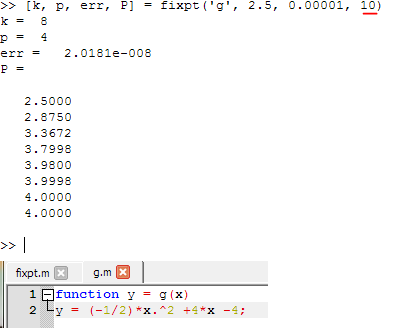
It can also be used to find all 3 e-values,

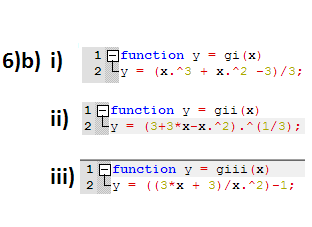
and not just the Dominant e-value,

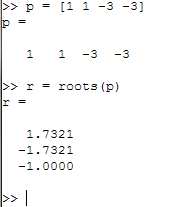
5)b)



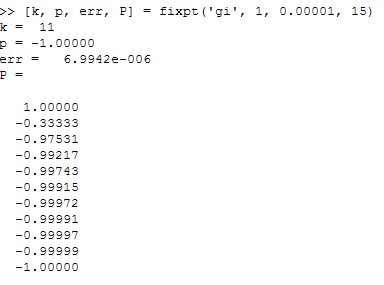
5e)



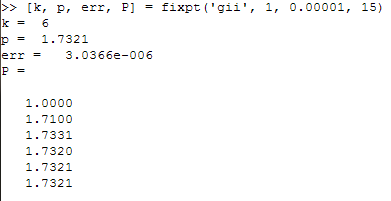
6a)

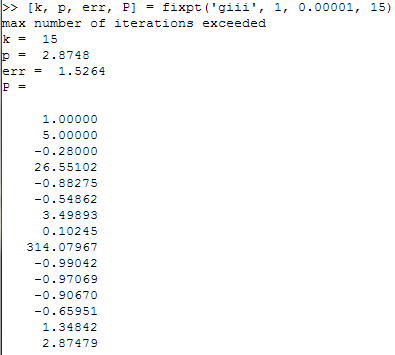


6)b)i) Converges after 11 iterations



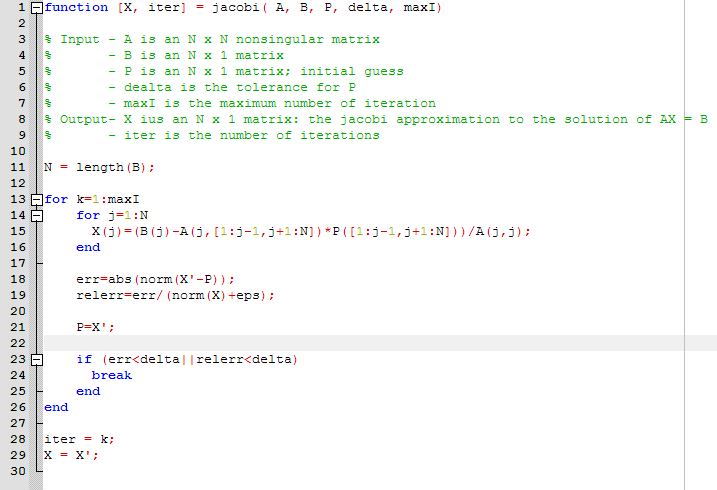
6)b)ii) Converges

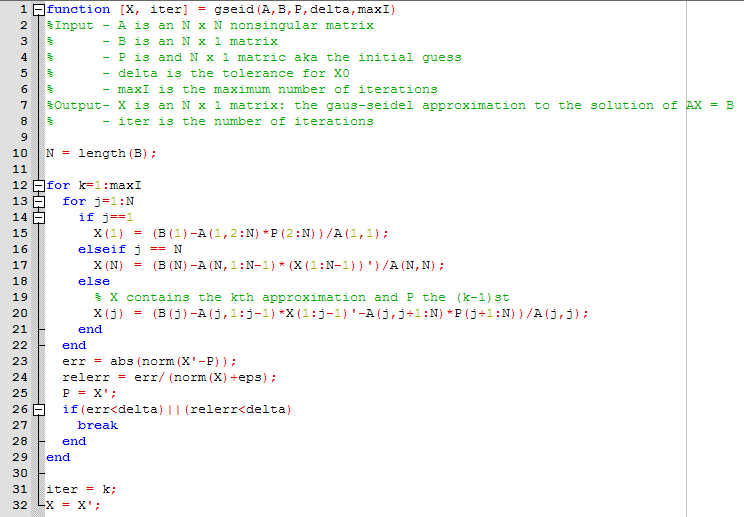


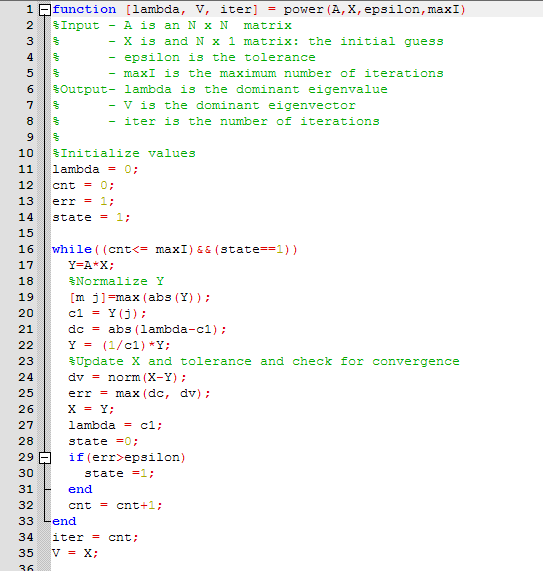
6)b)iii)

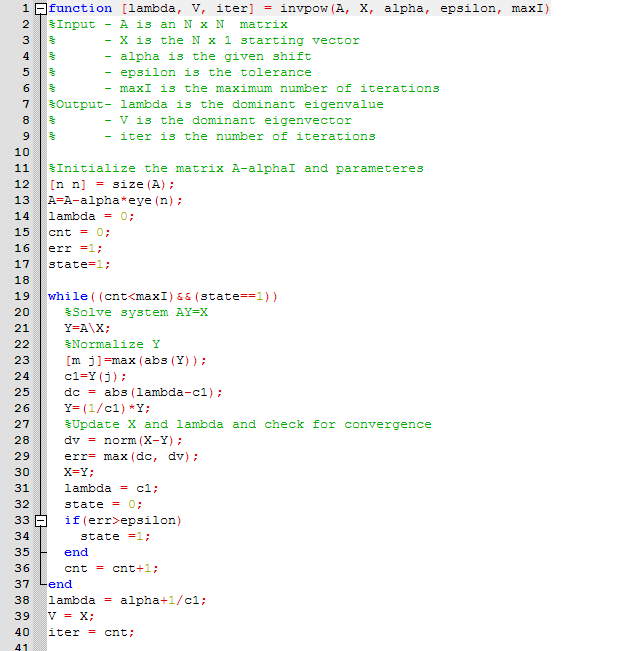
PROGRAMS:

Jacobi



Gauss-Seidel

Power

Inverse Power

Fixed point