

```

close all;clear all; A1=[-2,5,-3 5,-6,6 -3,6,-6]; n=length(A1); R=zeros(n); Q=zeros(n); w=0;
%====1)QR decomposition of A1===== [Q,R]=qr(A1); %=====Iteration
Step===== v=eig(A1); for m=1:100; %loop on m Q=eye(n); T=Q'*A1*Q; for i=1:m
%iteration %%step for k=1:n R(k,k)=norm(T(1:n,k)); Q(1:n,k)=T(1:n,k)/R(k,k); for j=k+1:n
R(k,j)=Q(1:n,k)*T(1:n,j); T(1:n,j)=T(1:n,j)-Q(1:n,k)*R(k,j); end end %%end step T=R*Q; end
%end iteration err1(m)=abs(T(1,1)-v(1)); err2(m)=abs(T(3,3)-v(2)); err3(m)=abs(T(2,2)-v(3));
end %end loop on m %=====Eigenvalues comparison===== iteration=(1:m);
semilogy(iteration,err1,'k+-',iteration,err2,'bo-',iteration,err3,'m*-'); %=====Comparison
with Jacobi=====

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