myNR.m

function [R, nitr] = myNR(f,df,x0,tol,nmax)

nitr = 0;

xnew = x0;

x = xnew + 2\*tol;

while abs(xnew-x) > tol && nitr < nmax

x = xnew;

xnew = x - f(x)/df(x); disp([nitr xnew]);

nitr = nitr + 1;

end

if nitr >= nmax

disp('Maximum number of iterations reached. NR may not have converged to a root.')

end

R = xnew;

end