```
% Derive Shape functions for rod/torsion element
\mbox{\ensuremath{\$}} For all points, the polynomials N and N' are evaluated.
% w=a+bx
b=[1 -1; % w(-1) x^n]
  1 1];% w(1) x^n
b=fliplr(b);
disp('b flipped to decreasing power order')
a=[1 \ 0]';
c1=(b\a)'
cld=polyderiv(cl)
% For N2
a=[0 1]';
c2=(b\a)
c2d=polyderiv(c2)
i=-1:.01:1;
plot(i,polyval(c1,i),i,polyval(c2,i))
%plot(i,polyval(c1,i),"-;sf1;",i,polyval(c2,i),"-
;sf2;",i,polyval(c3,i),"-;sf3;",i,polyval(c4,i),"-
;sf4;",i,polyval(c5,i),"-;sf5;",i,polyval(c6,i),"-;sf6;")
```