```
function [ maxX, preScaleMaxX ] = bezierPlot( axesHandle, x, y, c, showPoints )
%bezierPlot
    numcurves=size(x,1);
    t=0:.002:1;
    maxX = 0;
    preScaleMaxX = 0;
    x = x + y*c;
    hold(axesHandle, 'on');
     for i=1:numcurves
       if showPoints
            plot(axesHandle, x(i,1),y(i,1),'ro',x(i,4),y(i,4),'ro')
            plot(axesHandle, [x(i,1),x(i,2)],[y(i,1),y(i,2)],'b:')
plot(axesHandle, [x(i,3),x(i,4)],[y(i,3),y(i,4)],'b:')
plot(axesHandle, x(i,2),y(i,2),'bs',x(i,3),y(i,3),'bs')
       bx = 3*(x(i,2) - x(i,1));

cx = 3*(x(i,3) - x(i,2)) - bx;
       dx = x(i,4) - x(i,1) - bx -cx;
       by = 3*(y(i,2) - y(i,1));
cy = 3*(y(i,3) - y(i,2)) - by;
       dy = y(i,4) - y(i,1) - by -cy;
       xp=x(i,1)+bx*t+cx*t.*t+dx*t.^3;
       yp=y(i,1)+by*t+cy*t.*t+dy*t.^3;
       plot(axesHandle, xp,yp,'k')
       if max(xp) > maxX
            maxX = max(xp);
       if( max(xp - yp*c) > preScaleMaxX)
          preScaleMaxX = max(xp - yp*c);
       end
     end
     %axis square
    grid on
    hold(axesHandle, 'off')
end
```