

University of Colorado  
Department of Computer Science

Numerical Computation

CSCI 3656

Spring 2016  
Problem Set 8

Issued:

8 March 2016

Due:

15 March 2016

1. *[10 pts]* Go to one of the desktop machines in the CSEL and invoke the Unix drawing tool `xfig`. Play with the four spline- and curve-drawing tools, whose icons look like figure eights and S curves. Try some of the examples from the sheet that I handed out in class on March 8th.

Using your knowledge about different kinds of splines, do some experiments and form some conjectures about which ones `xfig` uses for the tool whose icon looks like a smooth figure eight and the one that looks like a figure eight with superimposed dots. With each answer, turn in a few sentences that describe your rationale for making that diagnosis.

Suggestions:

- try some colinear points
- use the ‘move-point’ tool (next to the ‘move’ tool)
- look at the slope of the spline at the endpoint