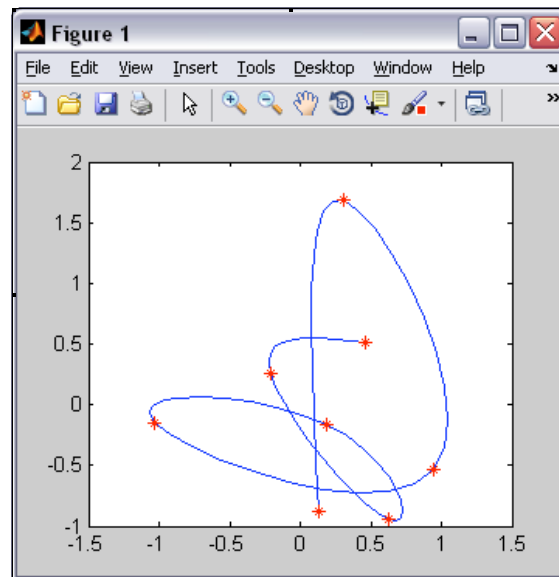


MECH 102 Project 1

Due 12:00 PM, Monday, April 19

In this project, you write a Matlab program **cspline_curve(x, y)**. Given the arrays of x and y coordinates of the points, the program draws a curve by interpolating the points with piecewise parametric cubic curves. You should check the PowerPoint slides **cspline_curve.ppt**.

The figure below shows an example output. Points were generated with `random()`, which generates random numbers, and passed to the program. The program showed the blue curve by interpolating the red points.



What to submit:

- Printout of your finished `cspline_curve(x, y)` program and the image of the curve generated from random numbers. A random number generator `random()` does not generate the same set of numbers. So your curve will be different from the above one.
- All the m-files you used (`cspline_curve.m`, `Gauss.m`, `pivot.m`, `draw_circle.m`, ...) in a folder named like `SakuraiH_project1`.