

Computational Fluid Dynamics (AE/ME 339)
MAEEM Dept., UMR, Fall 2001

Home Work Problem 14

A physical flow domain shown in figure is to be transformed into a rectangular computational domain. The numerical values of the y -coordinates of the upper wall is given in the table below. Determine the values of ξx , ξy , ηx , ηy at the point $\xi = 2$, $\eta = 0.75$. Point f corresponds to $x = 0$ and Point g corresponds to $x = 4$.

x	y
0	1.000
1	1.438
2	1.750
3	1.938
4	2.000

