Due: May 15th, 2013 before class.

Please show your work and draw a box around your answer to receive full credit.

1) Use MATLAB and write an M-file to evaluate the stiffness matrix for the element shown in Figure 1 using isoparametric formulation. Let $E = 30 \times 10^6$ psi and v = 0.25. Assume a thickness of 1 in.

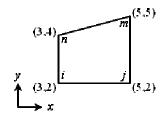


Figure 1. Quadrilateral element