



4.6 Exercises

4-1 One-dimensional element of line with two nodes.

(1) Using the equations of shape functions, verify the following

$$N_a(\xi_b) = \delta_{ab} = \begin{cases} 1, & \xi_a = \xi_b \\ 0, & \xi_a \neq \xi_b \end{cases} \quad \sum_{a=1}^2 N_a(\xi) = 1$$