Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student number\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*ξ*

1

2

3

2/3

1/3

1/2

1/2

*η*

**Assignment 5**

Derive the shape function expressions for the three-node element shown in terms of the scaled coordinates  and . Also, write down the shape functions in terms of the material coordinates  and .