
SOLUTION of (2-14.f):

The support of the function b_h^i coincides with the union of the two triangles on either side of edge i :

$$\text{supp } b_h^i = \bigcup \{ \bar{K} : K \in \mathcal{M}, m_j \in \bar{K} \} .$$

Therefore, also in this case the support conditions for global shape functions of finite element spaces (\rightarrow [Lecture \rightarrow Section 2.5.3]) are satisfied.
