Concave Elements
Just completed ‘concave quadrilaterals’ Mathematica code.

Figure 1: Color Contour Plots for Shape functions

The criteria for shape functions are:
1. finite within domains
2. linear on the boundaries
3. exactly reproduces linear fields

This version yields numerical values of shape functions calculated from Mathematica InterpolatingFunction objects. I am now working to represent shape functions in terms of distributions with singularities in algebraic forms.

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