

Numerische Integration einer triangulierten Fläche

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Transforming a generic triangle in R^3 into a unit square:

1. Orthogonal Projection:

$$\phi : R^3 \rightarrow R^3$$

$$\phi \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}$$