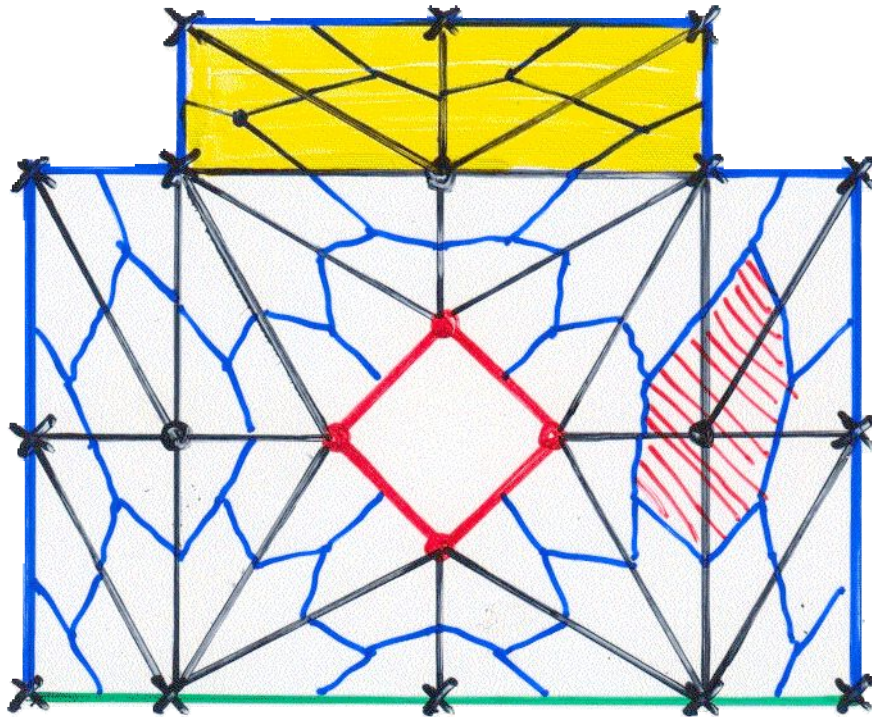


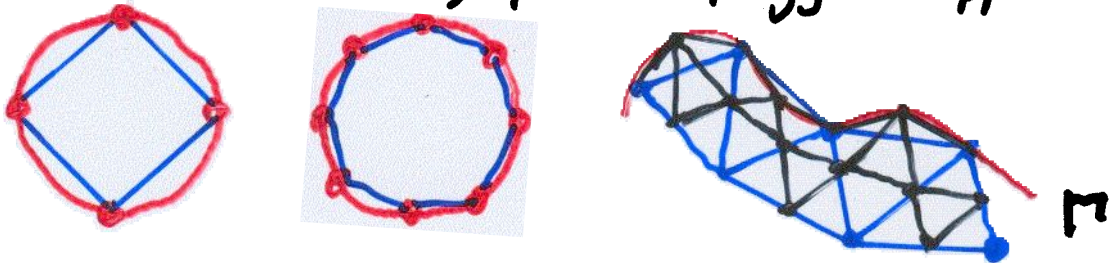
Beispiel: Example



$$\begin{aligned}
 x \in \omega &:= \bar{\omega} = \{0\} \cup \mathcal{N} = \{x\} \cong x^{(1)} : i \in \omega_h = \bar{\omega}_h \cup \mathcal{N}_{1h} \\
 x \in \mathcal{F} &= \mathcal{F}_1 = \{0\} \cong x^{(0)} : i \in \mathcal{F}_h = \mathcal{F}_{1h} \\
 \bar{\omega} &= \omega \cup \mathcal{F} \cong \bar{\omega}_h = \omega_h \cup \mathcal{F}_h
 \end{aligned}$$

Bemerkung 3.2: Remark 3.2

Bei krummlinigen Randteilen  $\Downarrow$  polygonale Approximation  
 Curvilinear boundary parts  $\Downarrow$  polygonal approximations



$$\begin{aligned}
 \bar{\Omega} &= \bigcup_{r \in \mathcal{R}_h} \bar{\mathcal{T}}_r, \quad \mathcal{T}_\Delta = \{\tilde{\mathcal{T}}_r : r \in \mathcal{R}_h\} \ni \tilde{\mathcal{T}}_r \xleftrightarrow[\text{Abb.}]{\text{nichtlin.}} \Delta = \triangle \\
 &\quad \uparrow \text{Abb.} \quad \text{reference triangle} \\
 \bar{\Omega}_h &= \bigcup_{r \in \mathcal{R}_h} \bar{\mathcal{T}}_r, \quad \mathcal{T}_\Delta = \{\mathcal{T}_r : r \in \mathcal{R}_h\} \ni \mathcal{T}_r \xleftrightarrow[\text{P}_1\text{-Abb.}]{\text{}} \Delta = \triangle \\
 &\quad \text{Referenzdreieck}
 \end{aligned}$$