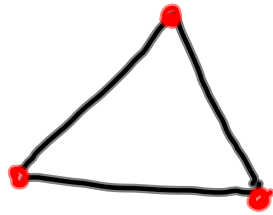
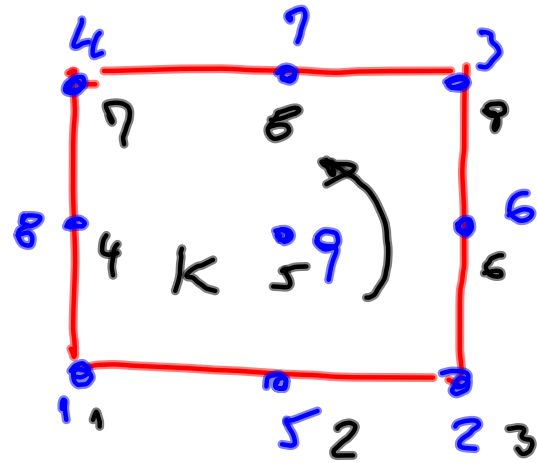
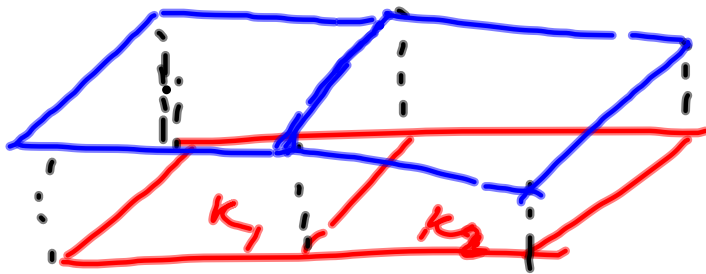


No Estruc.

$$N(x,y) = a_{00} + a_{10}x + a_{01}y + a_{11}xy$$

$$\forall x,y \in K$$



{Triángulo, $P_1, 3$ }

Repaso Ej. 4 - Guía 3.

$$(b) \begin{cases} -\Delta u = f & \text{en } \Omega \\ u = 0 & \text{sobre } \Gamma \end{cases} \Rightarrow \phi = \nabla u \quad (M)$$

Funcional $F = \frac{1}{2} \int_{\Omega} |g|^2 dx$

$$r = \phi + \varepsilon g$$

redefiniendo en
función de ε .

$$F(\phi) < F(r = \phi + \varepsilon g)$$

$$F(0) < \underline{F(\varepsilon)}$$

$$F(p) < F(r = p + \varepsilon q)$$

$$F(0) < F(\varepsilon)$$

↓ Algebraico.

$$F(\varepsilon) = \frac{1}{2} \int |p|^2 + \varepsilon \int p q + \frac{\varepsilon^2}{2} \int |q|^2$$

ex minimo en $\varepsilon = 0$ \Leftrightarrow

$$F'(\varepsilon) = \int p q + \cancel{\varepsilon \int |q|^2} = 0$$

$$F'(0) = \int p q = 0$$

$$\boxed{\int p q = 0.}$$