

# HW #10

Choose the basis function  $\varphi_{ij}(x, y)$  given in Eq. (3.4.3)

and find  $k_{11,21} = \iint_{\Omega} \left( \frac{\partial \varphi_{11}}{\partial x} \frac{\partial \varphi_{21}}{\partial x} + \frac{\partial \varphi_{11}}{\partial y} \frac{\partial \varphi_{21}}{\partial y} \right) dx dy$ .

