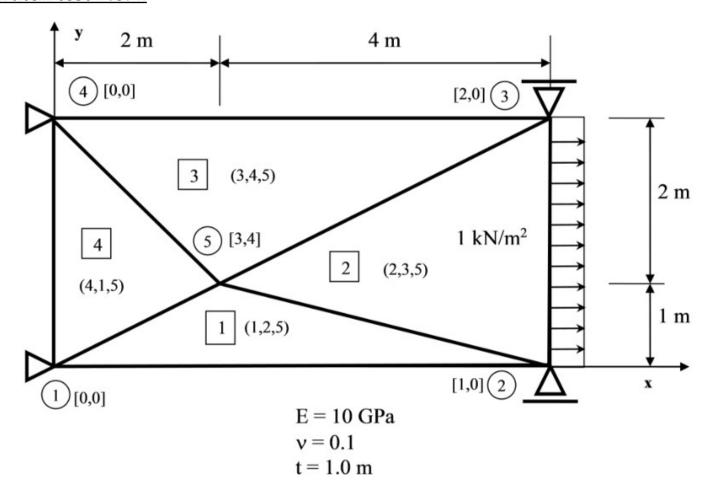
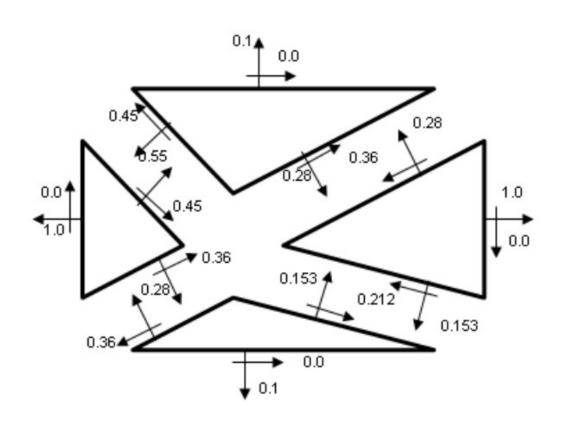
Patch test No. 1

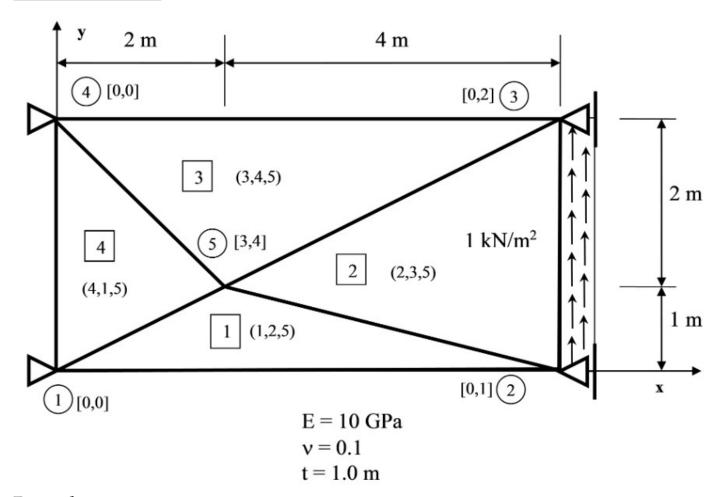


Boundary stresses:

$$g^e = \left\{ \begin{array}{c} \sigma_n \\ \tau \end{array} \right\} = \left[\begin{array}{cc} \cos(\alpha) & \sin(\alpha) \\ -\sin(\alpha) & \cos(\alpha) \end{array} \right] \left\{ \begin{array}{c} p_x \\ p_y \end{array} \right\} = \left[\begin{array}{cc} \cos(\alpha) & \sin(\alpha) \\ -\sin(\alpha) & \cos(\alpha) \end{array} \right] \left[\begin{array}{cc} \sigma_x & \tau_{xy} \\ \tau_{yx} & \sigma_y \end{array} \right] \left\{ \begin{array}{c} \cos(\alpha) \\ \sin(\alpha) \end{array} \right\}$$



Patch test No. 2



Boundary stresses:

$$g^e = \left\{ \begin{array}{c} \sigma_n \\ \tau \end{array} \right\} = \left[\begin{array}{cc} \cos(\alpha) & \sin(\alpha) \\ -\sin(\alpha) & \cos(\alpha) \end{array} \right] \left\{ \begin{array}{c} p_x \\ p_y \end{array} \right\} = \left[\begin{array}{cc} \cos(\alpha) & \sin(\alpha) \\ -\sin(\alpha) & \cos(\alpha) \end{array} \right] \left[\begin{array}{cc} \sigma_x & \tau_{xy} \\ \tau_{yx} & \sigma_y \end{array} \right] \left\{ \begin{array}{c} \cos(\alpha) \\ \sin(\alpha) \end{array} \right\}$$

