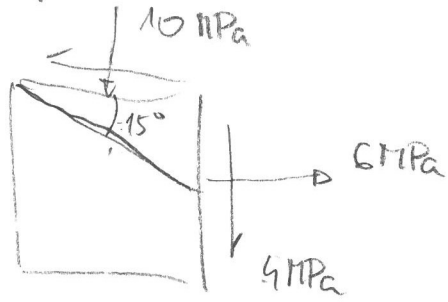


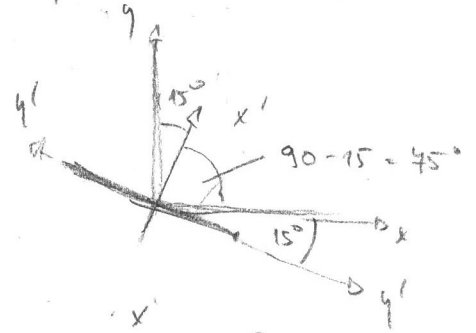
Pr. Vřetle napětí (normálovou a smykovou složkou) je vyjádřeno přičez



$$\sigma_x = 6 \text{ MPa}$$

$$\tau_{xy} = -4 \text{ MPa}$$

$$\sigma_y = -10 \text{ MPa}$$



$$T_{\sigma}^{45} = \begin{bmatrix} \cos 45^\circ & -\sin 45^\circ \\ \sin 45^\circ & \cos 45^\circ \end{bmatrix}^T \begin{bmatrix} 6 & -4 \\ -4 & -10 \end{bmatrix} \begin{bmatrix} \cos 45^\circ & -\sin 45^\circ \\ \sin 45^\circ & \cos 45^\circ \end{bmatrix} = \begin{bmatrix} -10.928 & -0.536 \\ -0.536 & 6.928 \end{bmatrix}$$

$$\sigma'_x = -10.928, \quad \tau'_{xy} = -0.536 \text{ MPa}$$