

Name_____ Student number_____

Assignment 4 (4p)

Find the stress resultants N , Q_z , M_y and the displacement and rotation components u , w , θ of the xz -plane cantilever beam of the figure according to the Timoshenko beam model. Problem parameters E , G , A , $S_y = 0$ and $I_{yy} = I$ are constants. Start with the generic equilibrium and constitutive equations for the beam model.

