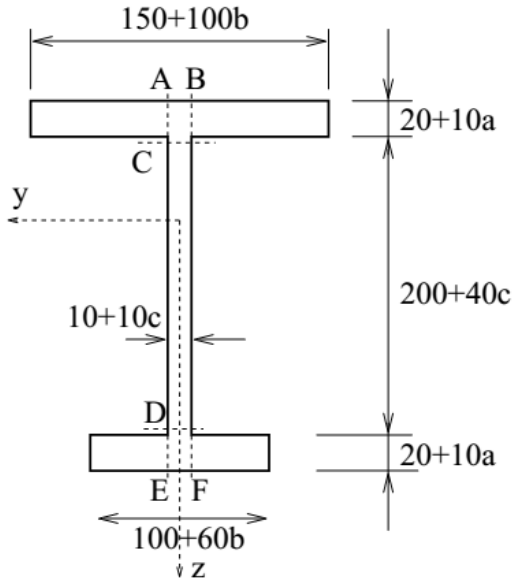
1) Determine the shear stress and the shear flow for a given I-shape cross section loaded by the shear force $V_z = (60 + 10c)$ kN.
    a) Draw the distribution diagrams of the shear stress and the shear flow (sketch their direction as well).

    The checked values are:

    - Shear flow in A, B, C, D, E, F sections [kN/m]
    - Shear stress in C and F sections [MPa]
    - Maximum shear stress [MPa]

    Note: Put the values with appropriate signs based on the given coordinate system.



2) Determine the shear stress (τ_{xz}) for a given pentagon type of the cross section loaded by the shear force $V_z = (200 + 30a)$ kN.
    a) Draw the distribution diagram of the shear force.

    The checked value is:

    - Maximum shear stress [MPa]