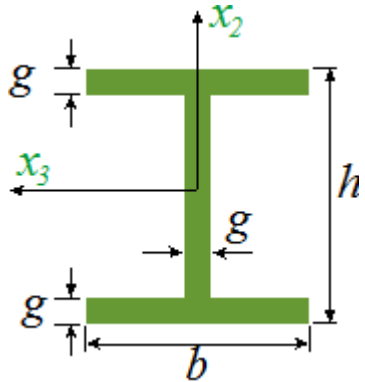


Grupa A

Zad. 2

$E := 17\text{GPa}$ $L := 8\text{m}$ $b := 12\text{cm}$ $h := 17\text{cm}$ $g := 3\text{cm}$ $Sch := 2$

$z = 3.141593$



$$b1 := b - g \quad h1 := h - 2 \cdot g$$

$$J3 := \frac{b \cdot h^3}{12} - \frac{b1 \cdot h1^3}{12}$$

$$J2 := \frac{g \cdot b^3}{6} + \frac{h1 \cdot g^3}{12}$$

$$J := \min(J2, J3) = 888.750000 \cdot \text{cm}^4$$

$$P_{kr} := \frac{z^2 E \cdot J}{L^2} = 23.300 \cdot \text{kN}$$

