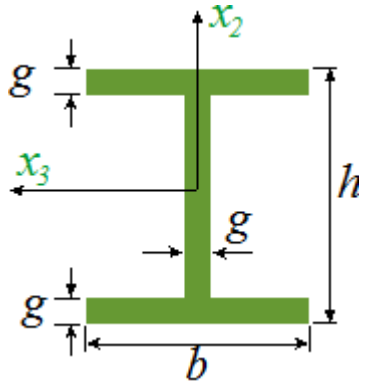


Grupa B1

Zad. 2

$$E := 13 \text{ GPa} \quad L := 9 \text{ m} \quad b := 12 \text{ cm} \quad h := 17 \text{ cm} \quad g := 2 \text{ cm} \quad \text{Sch} := 3$$

$$z = 4.493409$$



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

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

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

$$J := \min(J2, J3) = 584.666667 \cdot \text{cm}^4$$

$$P_{kr} := \frac{z^2 E \cdot J}{L^2} = 18.95 \cdot \text{kN}$$

