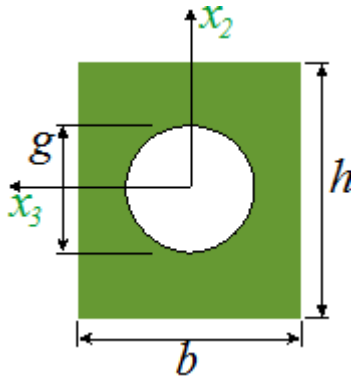


Grupa A2

Zad. 2

$$E := 14 \text{ GPa} \quad L := 8 \text{ m} \quad b := 15 \text{ cm} \quad h := 18 \text{ cm} \quad g := 5 \text{ cm} \quad \text{Sch} := 4 \quad z = 6.283185$$



$$J_2 := \frac{h \cdot b^3}{12} - \frac{\pi g^4}{64} = 5031.82 \cdot \text{cm}^4$$

$$J_3 := \frac{h^3 \cdot b}{12} - \frac{\pi g^4}{64} = 7259.32 \cdot \text{cm}^4$$

$$J := \min(J_2, J_3) = 5031.82 \cdot \text{cm}^4$$

$$P_{kr} := \frac{z^2 E \cdot J}{L^2} = 434.54 \cdot \text{kN}$$

