

Grupa B2

$$E := 16 \text{ GPa} \quad \underset{\sim}{L} := 7 \text{ m} \quad b := 2 \text{ cm} \quad h := 5 \text{ cm} \quad \underset{\sim}{g} := 12 \text{ cm}$$

$$J_3 := \frac{-b \cdot h^3}{12} + \frac{\pi g^4}{64} = 997.042686 \cdot \text{cm}^4$$

$$J_2 := \frac{-b^3 \cdot h}{12} + \frac{\pi g^4}{64} = 1.014543 \times 10^3 \cdot \text{cm}^4$$

$$\underset{\sim}{J} := \min(J_2, J_3) = 9.970427 \times 10^2 \cdot \text{cm}^4$$

$$\cos(z) = 0$$

$$P_{kr} := \frac{z^2 E \cdot J}{L^2} = 8.03 \cdot \text{kN}$$

