

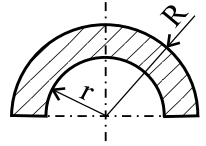
---

**Problem 105**

Calculate the principal central second moments of the section having the shape of a half annulus.

Input values:  $R = 50 \text{ mm}$ ,  $r = 30 \text{ mm}$ .

---



**Solutions**      **characteristics of the cross section**