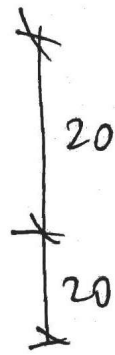
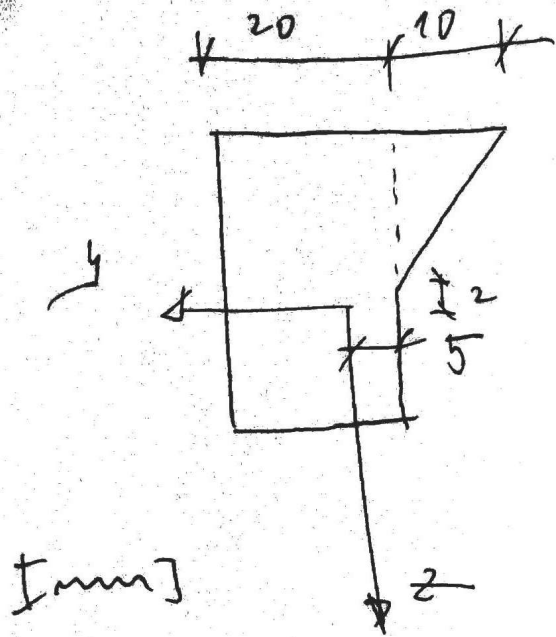


1300001: OP/15/14
6.3.2017



$$\begin{aligned}
 I_y &= \frac{1}{12} \cdot 20 \cdot 40^3 + 20 \cdot 40 \cdot (2)^2 + \\
 &+ \frac{1}{12} \cdot 10 \cdot 20^3 + \frac{1}{2} \cdot 10 \cdot 20 \cdot \left(2 + \frac{2}{3} \cdot 20\right)^2 \\
 &= \underline{1,356 \cdot 10^7 \text{ mm}^4}
 \end{aligned}$$

$$\begin{aligned}
 I_z &= \frac{1}{12} \cdot 20^3 \cdot 40 + 20 \cdot 40 \cdot (10 - 15)^2 + \\
 &+ \frac{1}{12} \cdot 10^3 \cdot 20 + \frac{1}{2} \cdot 10 \cdot 20 \cdot \left(5 + \frac{1}{2} \cdot 10\right)^2 = \\
 &= \underline{5,417 \cdot 10^7 \text{ mm}^4}
 \end{aligned}$$