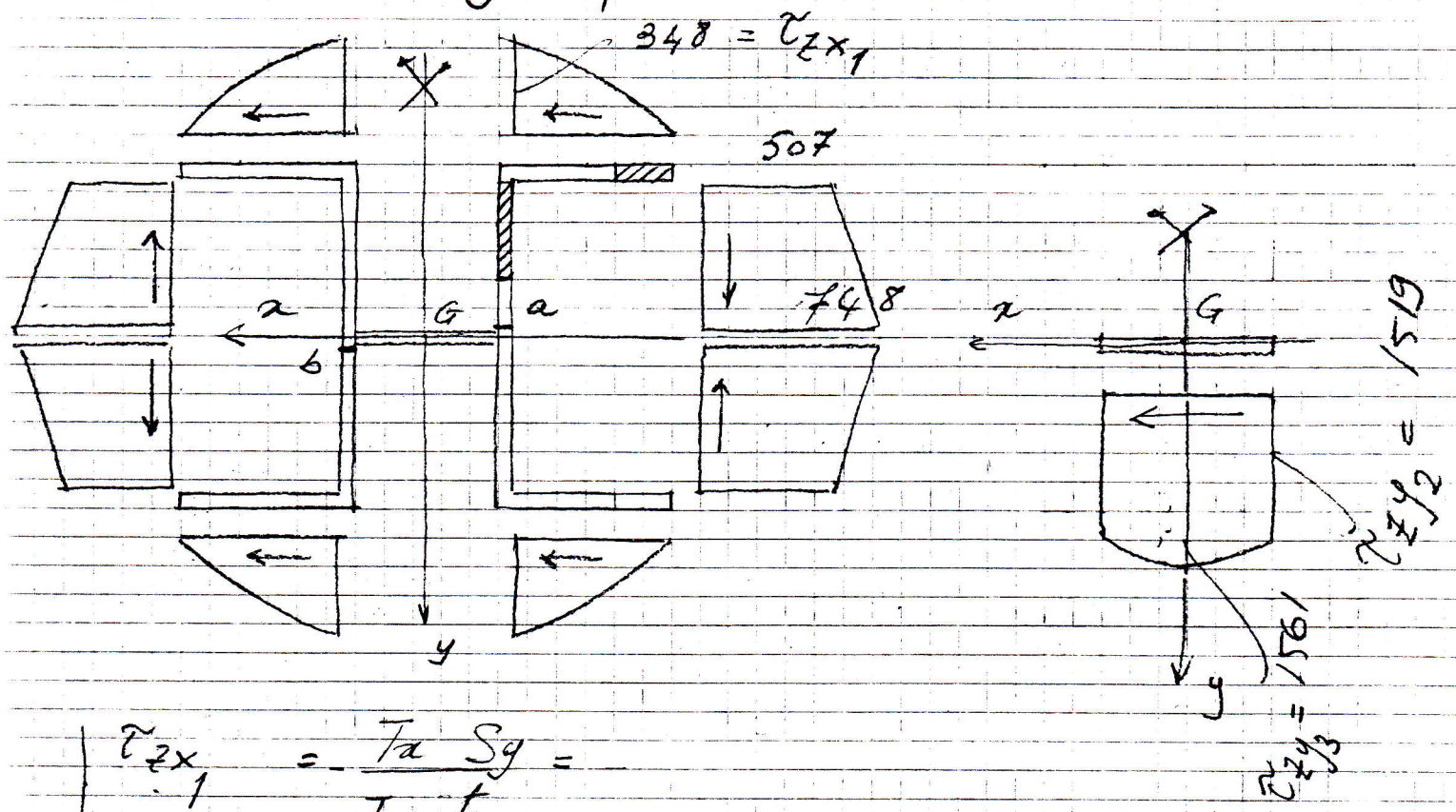


$$\tau_{zy \max} = \frac{T_y}{I_x} \frac{S_x}{s} =$$

$$= - \frac{20'000}{7198} \left(\overset{10.225}{125,4175} + \overset{5,5875}{(12 - 1,3 - 0,95/2)0,95 (10,225/3 + 0,95/2)} \right) \cdot 0,95$$

$$= - 525 \text{ kg/cm}^2$$



$$\tau_{zx1} = - \frac{T_x}{I_y} \frac{S_y}{t} =$$

$$= - \frac{20'000}{3788 \cdot 1,3} \left[\overset{7,55}{(8,5 - 0,95) \cdot 1,3 ((8,5 - 0,95)/2 + 4 + 0,95)} + \overset{8,725}{\dots} \right] =$$

$$= - 348 \text{ kg/cm}^2$$

$$\tau_{zy \min} = - \frac{T_x}{I_y} \frac{S_y}{s} =$$

$$= - \frac{20'000}{3788 \cdot 0,95} \left[\overset{8,25}{(8,5 \cdot 1,3) (4 + 8,5/2)} \right] = - 507 \text{ kg/cm}^2$$

$$\tau_{zy \max} = - \frac{20'000}{3788 \cdot 0,95} \left(\overset{4,475}{97,1625} + 10,225 \cdot 0,95 \cdot (4 + 0,95/2) \right) =$$