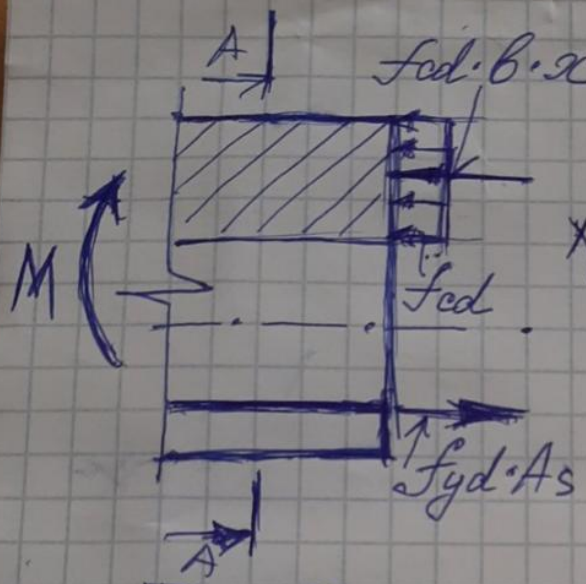
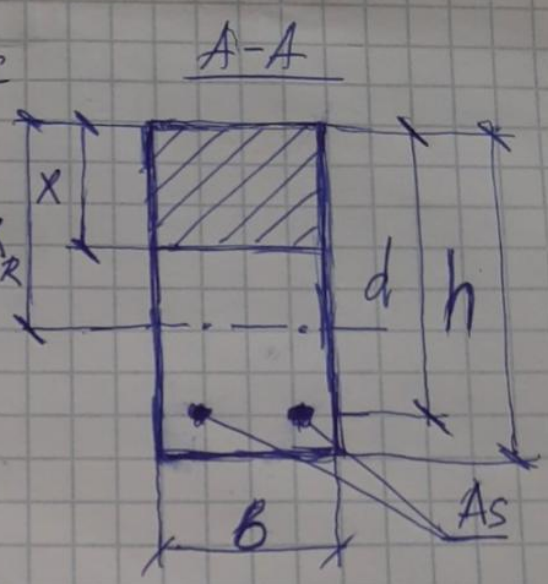




$$\xi = \frac{x}{d}$$

$$\xi_R = \frac{x_R}{d}$$

$n \phi D \rightarrow A_s = \ldots \; см^2$

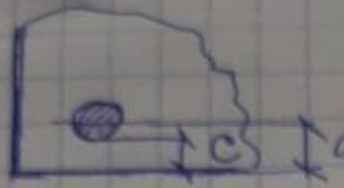
$A\_\_ c \rightarrow f_{yd} = \ldots \; МПа$

$\gamma_{c1} =$

$C \_\_ / \_\_ \rightarrow f_{cd} = \ldots \; МПа \cdot \gamma_{c1}$

$b \times h, \; см$

1. $d = h - a$, см



$a = c + 0{,}5\phi$, см

$2\text{см} \leq c \geq \phi$

$a = c + 1{,}5\phi$, см

2. $\omega = \alpha - \beta \cdot f_{cd} = \ldots = [0, \ldots]$

$\alpha = 0{,}85$

$\beta = 0{,}08$

3. $\gamma_{c1} = 1 \rightarrow \sigma_{sc,u} = 400\,МПа$

$\gamma_{c1} = 0{,}9 \rightarrow \sigma_{sc,u} = 500\,МПа$

4. $$\xi_R = \frac{\omega}{1 + \frac{\sigma_{s,R}}{\sigma_{sc,u}}\left(1 - \frac{\omega}{1.1}\right)} = \ldots [$$

$\sigma_{s,R} \rightarrow f_{yd}$

5. $x = \frac{As \cdot fyd}{b \cdot fcd} = \ldots, см$

6. $xc_R = \xi_R \cdot d = \quad , см$

7. $xc \leq x_R$

7. так. 8. $M_u = As \cdot fyd \cdot (d - 0{,}5x)$ [0,1]

$= \ldots кН \cdot см [:100] = кН \cdot м$

7. ні 8! $M_u = b \cdot x_R \cdot fcd \, (d - 0{,}5x_R$