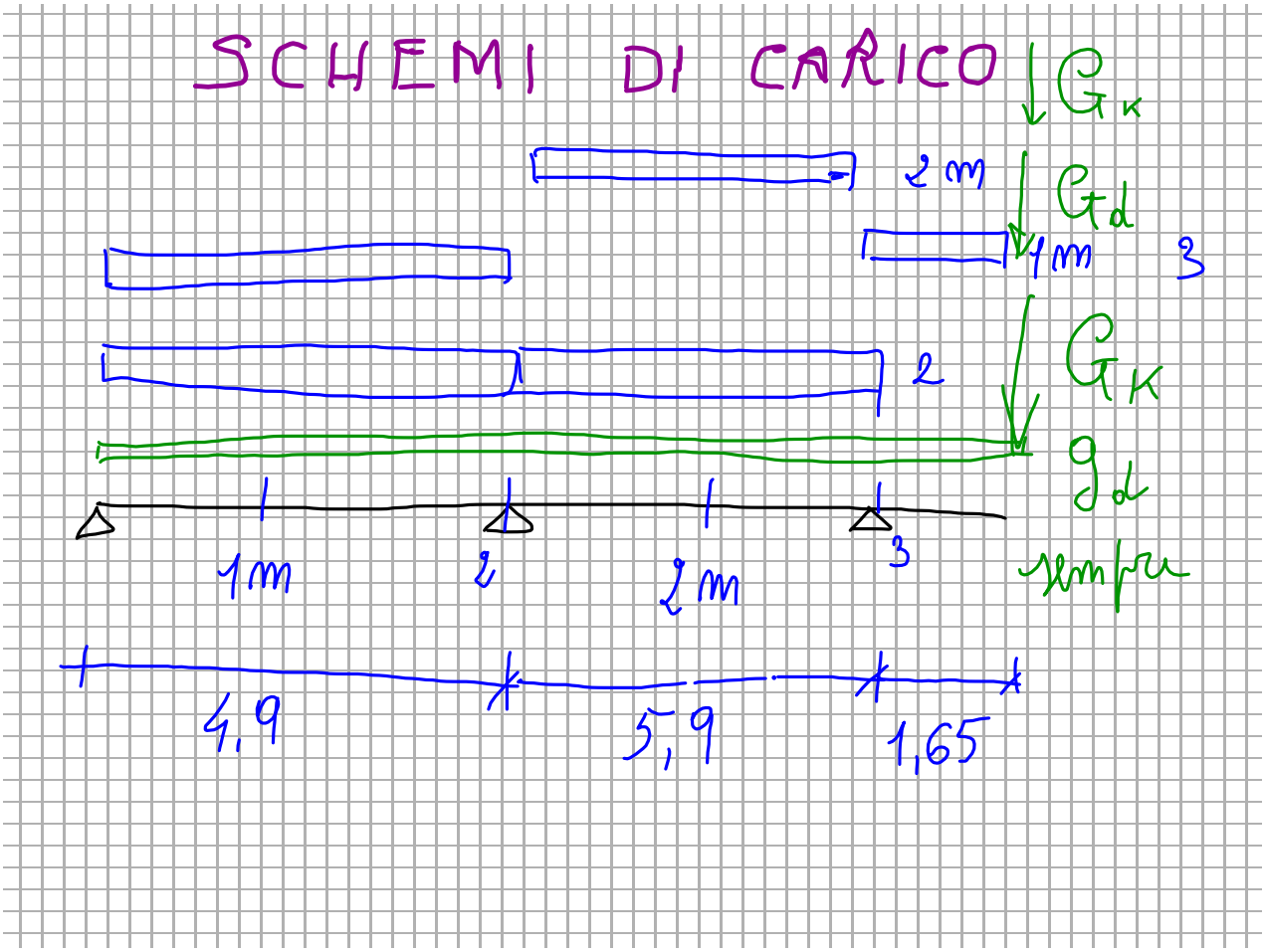
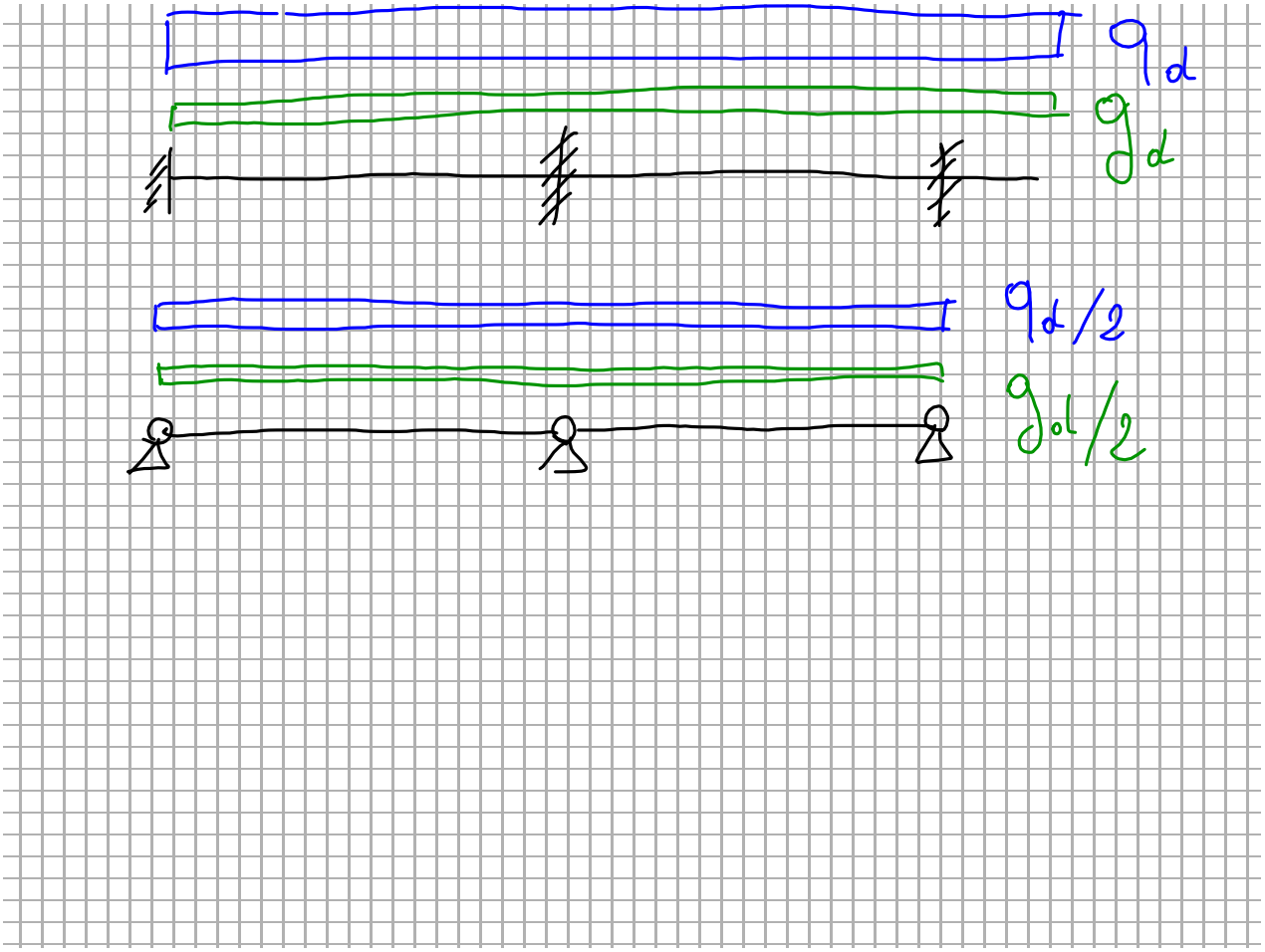
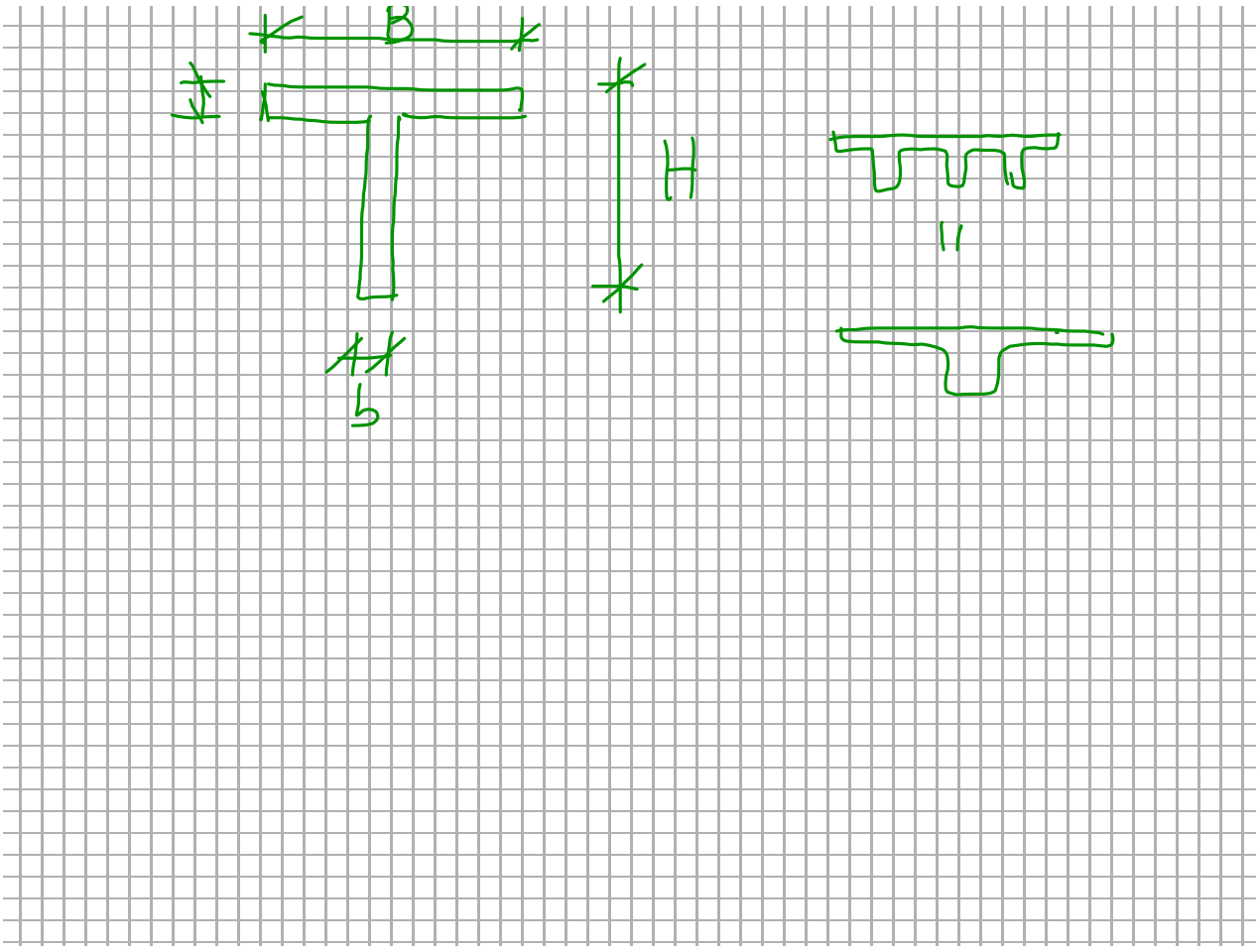
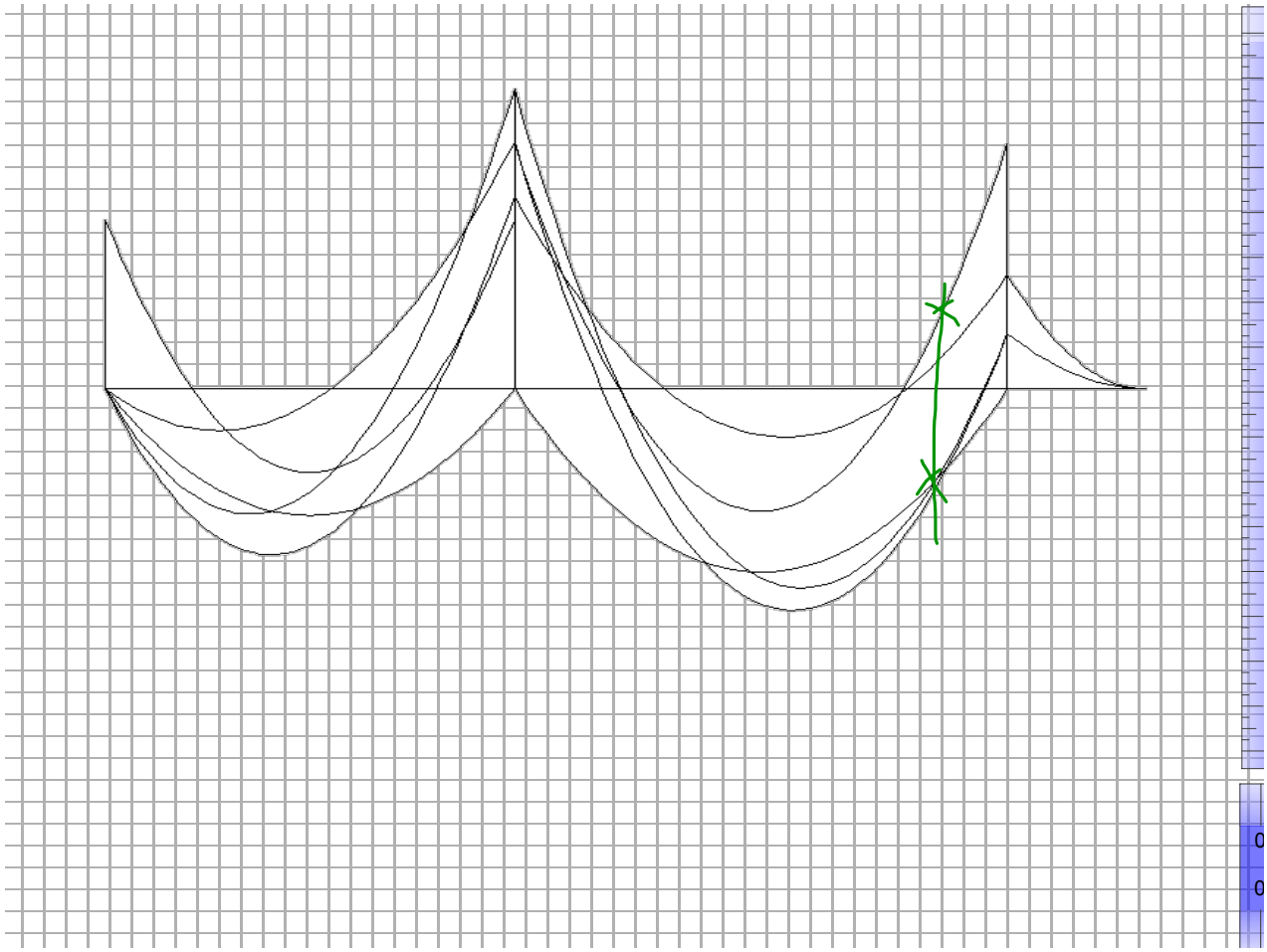
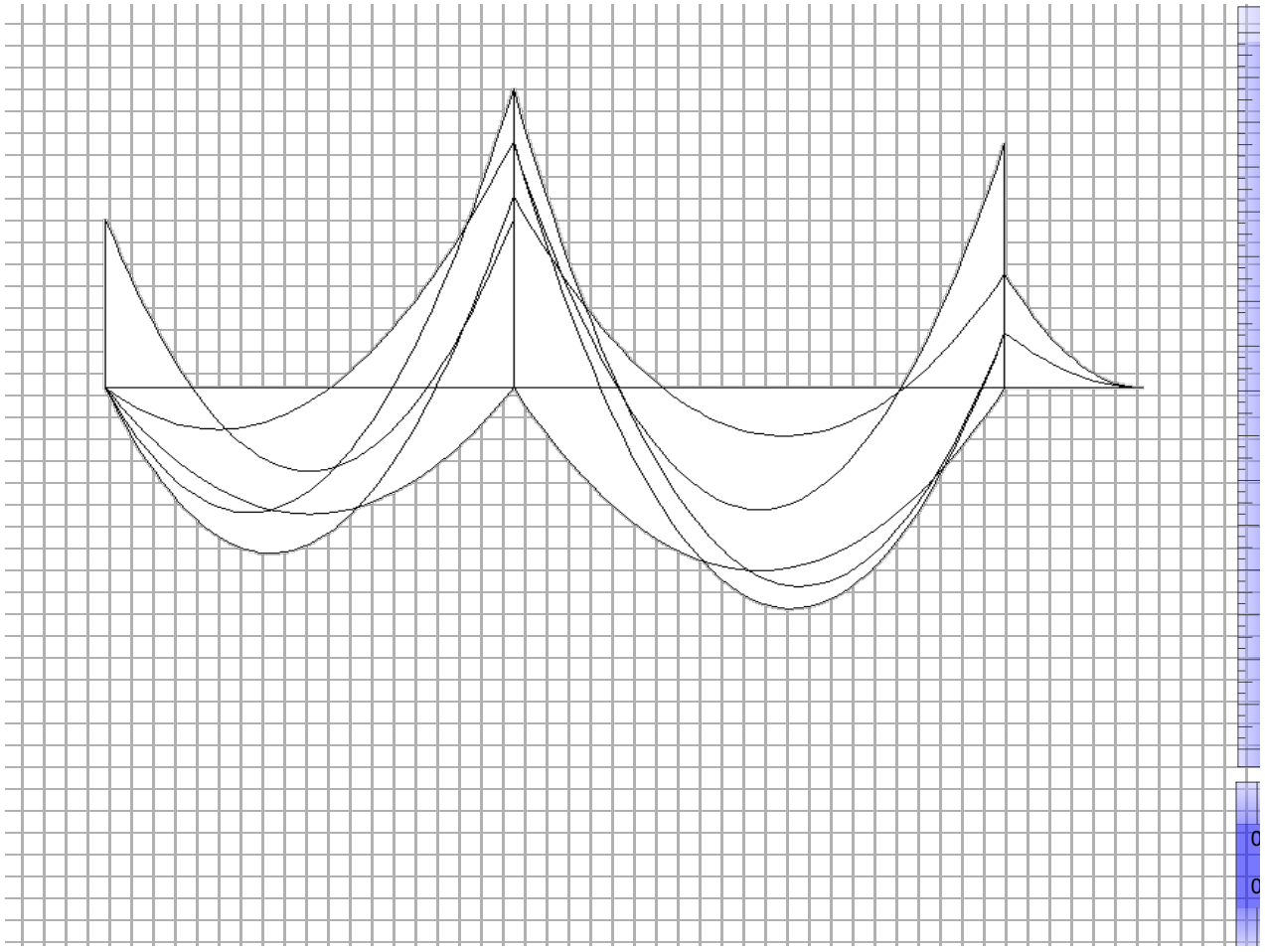
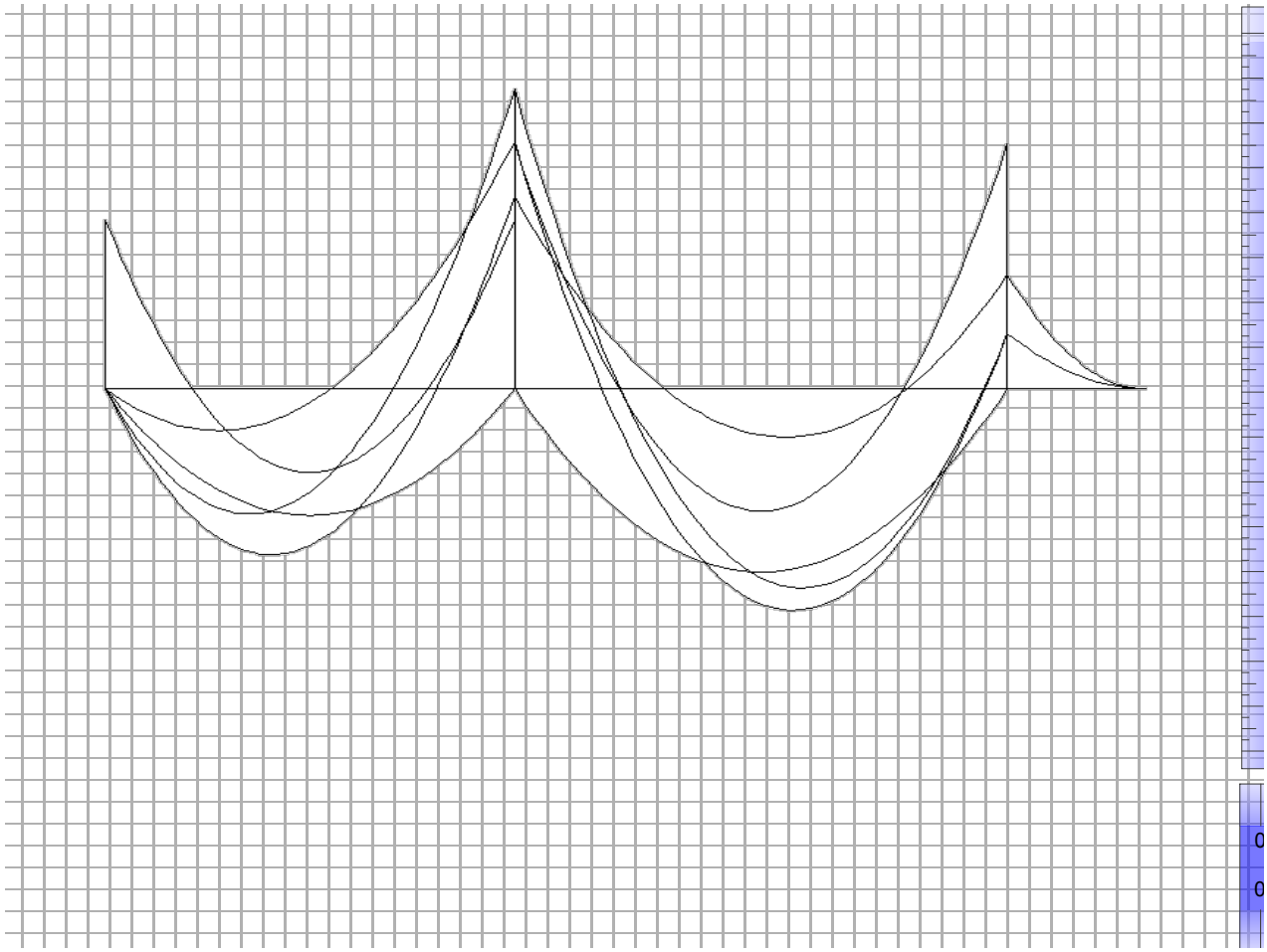

SCHEMI DI CARICO
G_K
2 m
G_d
1m
3
2
G_K
g_d
1m
2
2m
3
4,9
5,9
1,65

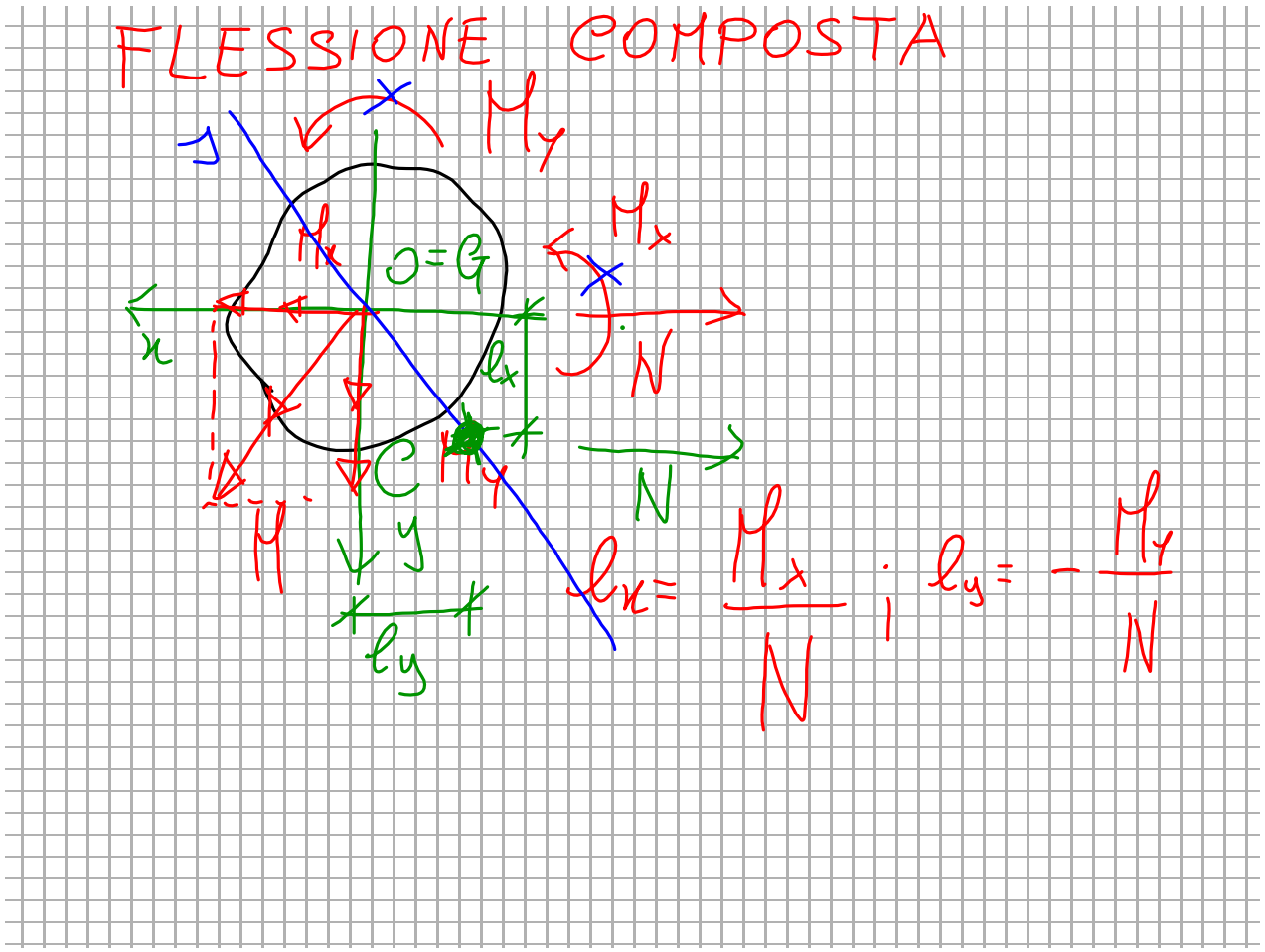

g_d
g_d
$g_d/2$
$g_d/2$


B
H
b



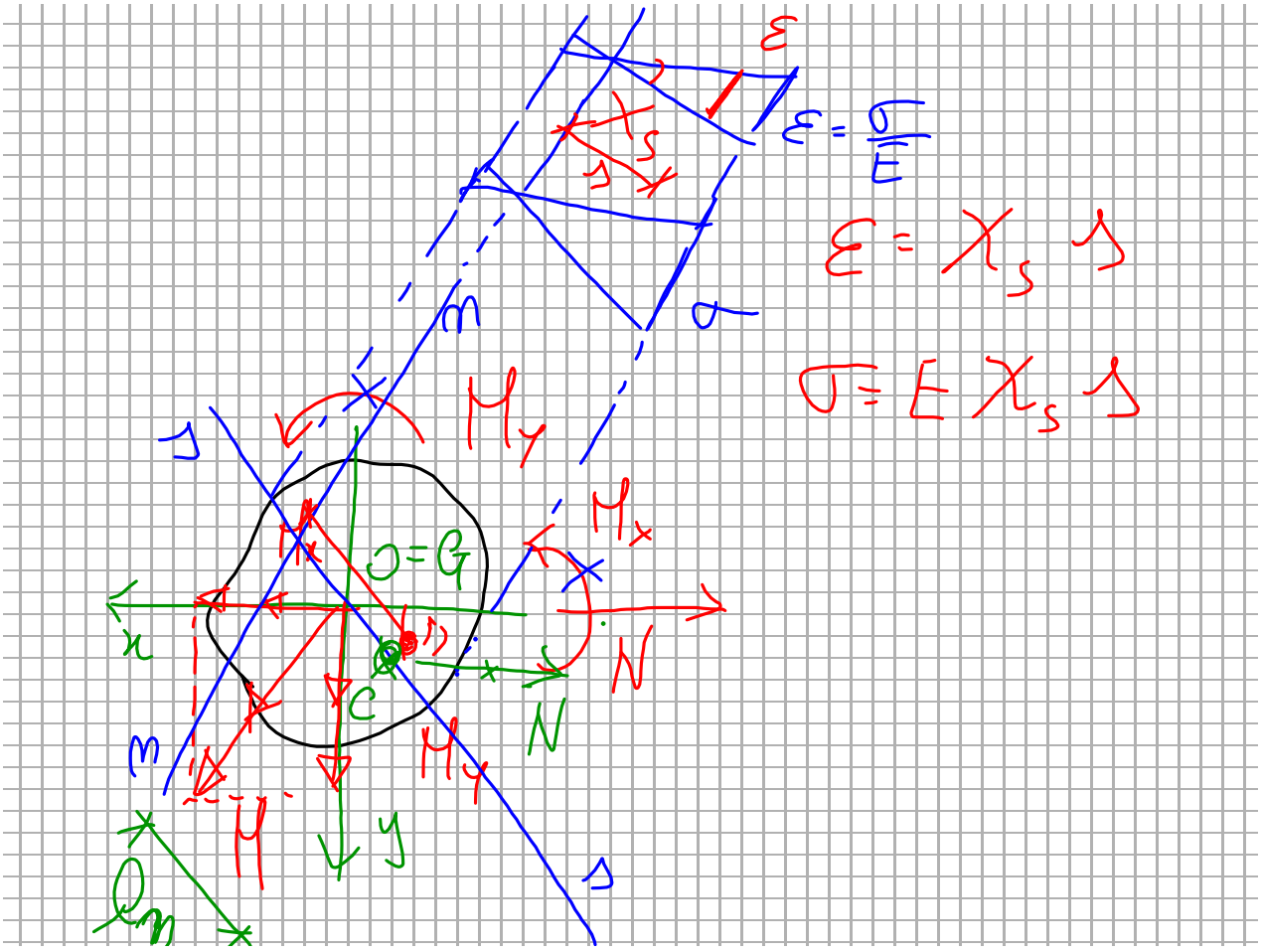





FLESSIONE COMPOSTA
M_y
M_x
M_x
O=G
x
ℓ_x
N
C
M_y
N
y
ℓ_y
$\ell_x = \frac{M_x}{N}$; $\ell_y = -\frac{M_y}{N}$

$$\sigma = \frac{N}{A} + \frac{M_x}{I_x} y - \frac{M_y}{I_y} x$$

$$\varepsilon = \frac{N}{EA} + \frac{M_x}{EI_y} y - \frac{M_y}{EI_y} x$$



$$\varepsilon = \frac{\sigma}{E}$$

$$\varepsilon = \chi_s \, y$$

$$\sigma = E \, \chi_s \, y$$

$$N = \int_A \sigma \, dA = E\chi_s \int_A y \, dA = E\chi_s S_m$$

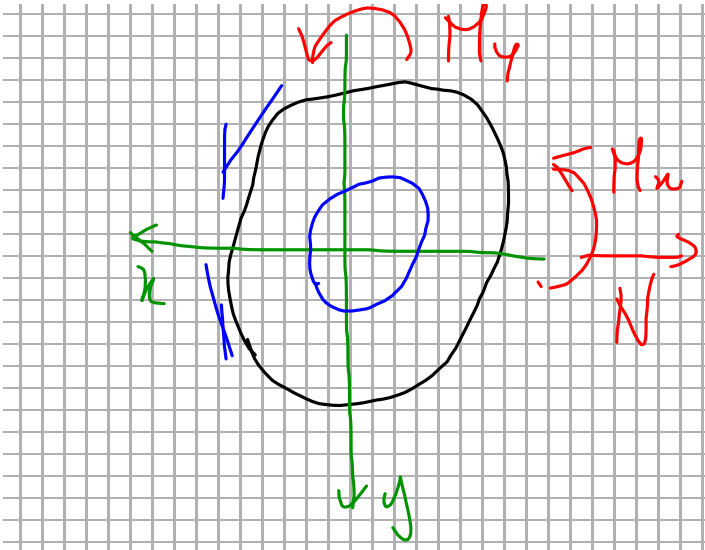
$$M_m = N e_m = \int_A \sigma \cdot y \, dA = E\chi_s \int_A y^2 \, dA = E\chi_s I_m$$

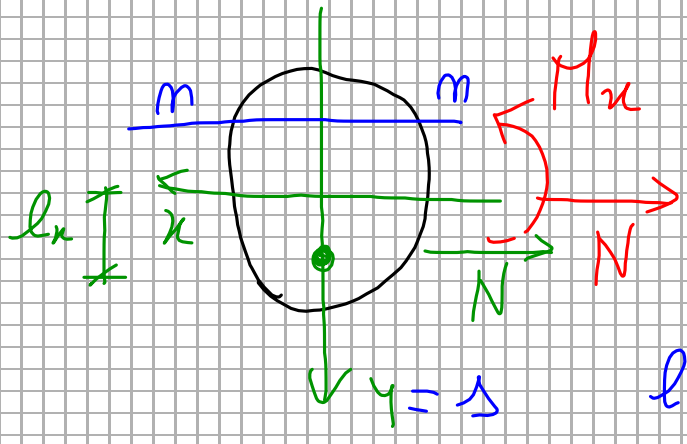
$$e_m = \frac{E\chi_s I_m}{E\chi_s S_m} \Rightarrow \boxed{e_m = \frac{I_m}{S_m}}$$

$$\sigma = E\chi_s y = \frac{N}{S_m} y$$

$$\boxed{\sigma = \frac{N}{S_m} y}$$

$$\boxed{\sigma = \frac{N e_m}{I_m} y}$$





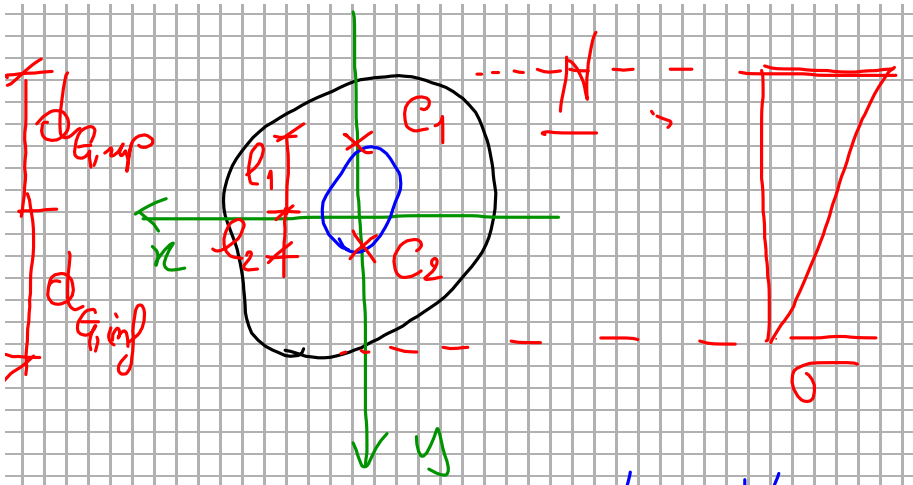
$$\sigma = \frac{N}{A} + \frac{M_x}{I_x} y$$

$$l_x = l = \frac{M_x}{N}$$

$$l_m = \frac{I_m}{S_m}$$

$$\sigma = \frac{N}{S_m} s$$

$$\sigma = \frac{N l_m}{I_m} s$$

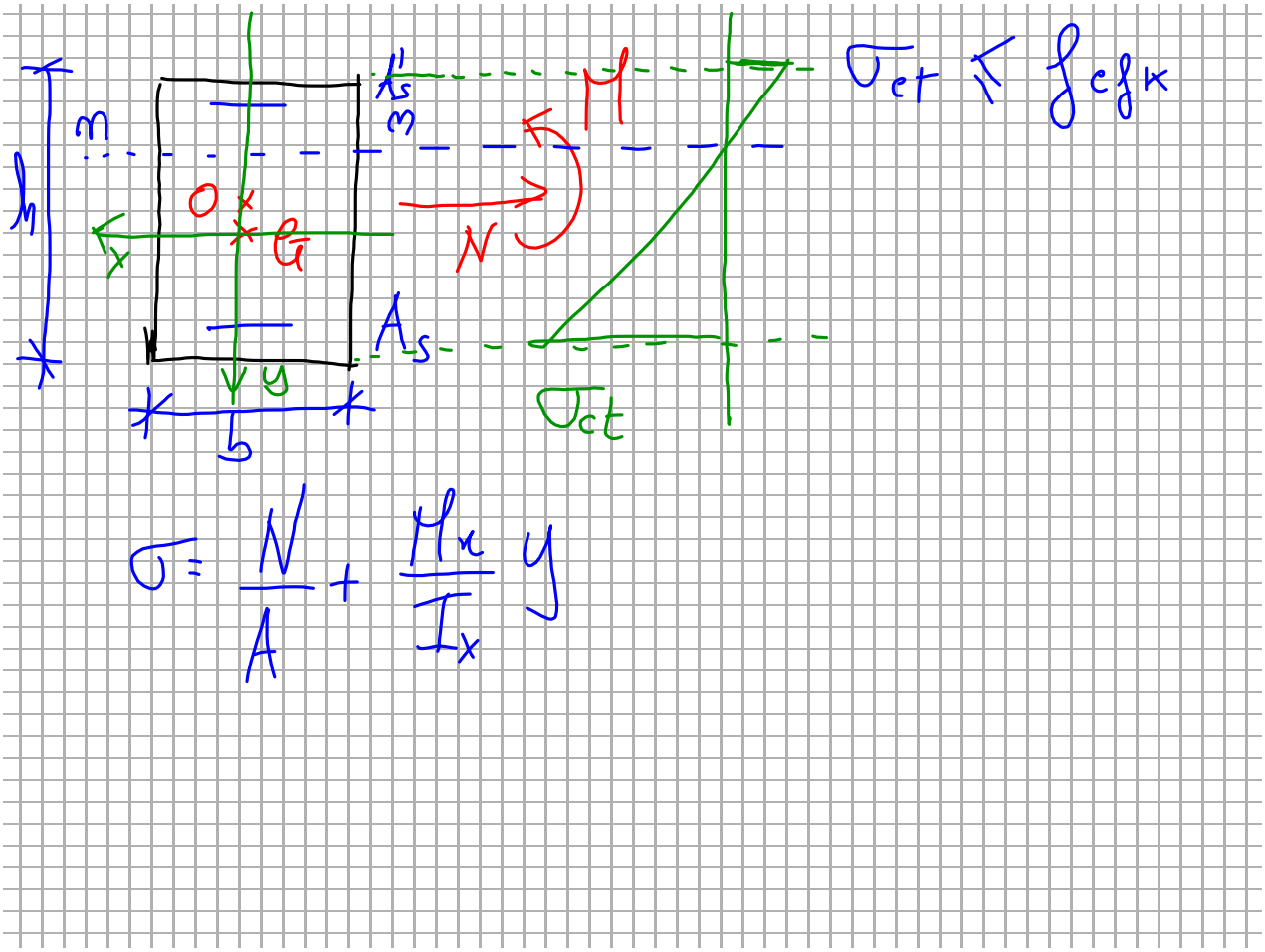


$$\sigma = \frac{N}{A} + \frac{M_x}{I_x} y = \frac{N}{A} - \frac{N\ell_1}{I_x} y = \frac{N}{A} - \frac{N\ell_1}{I_x} d_{G,inf}$$

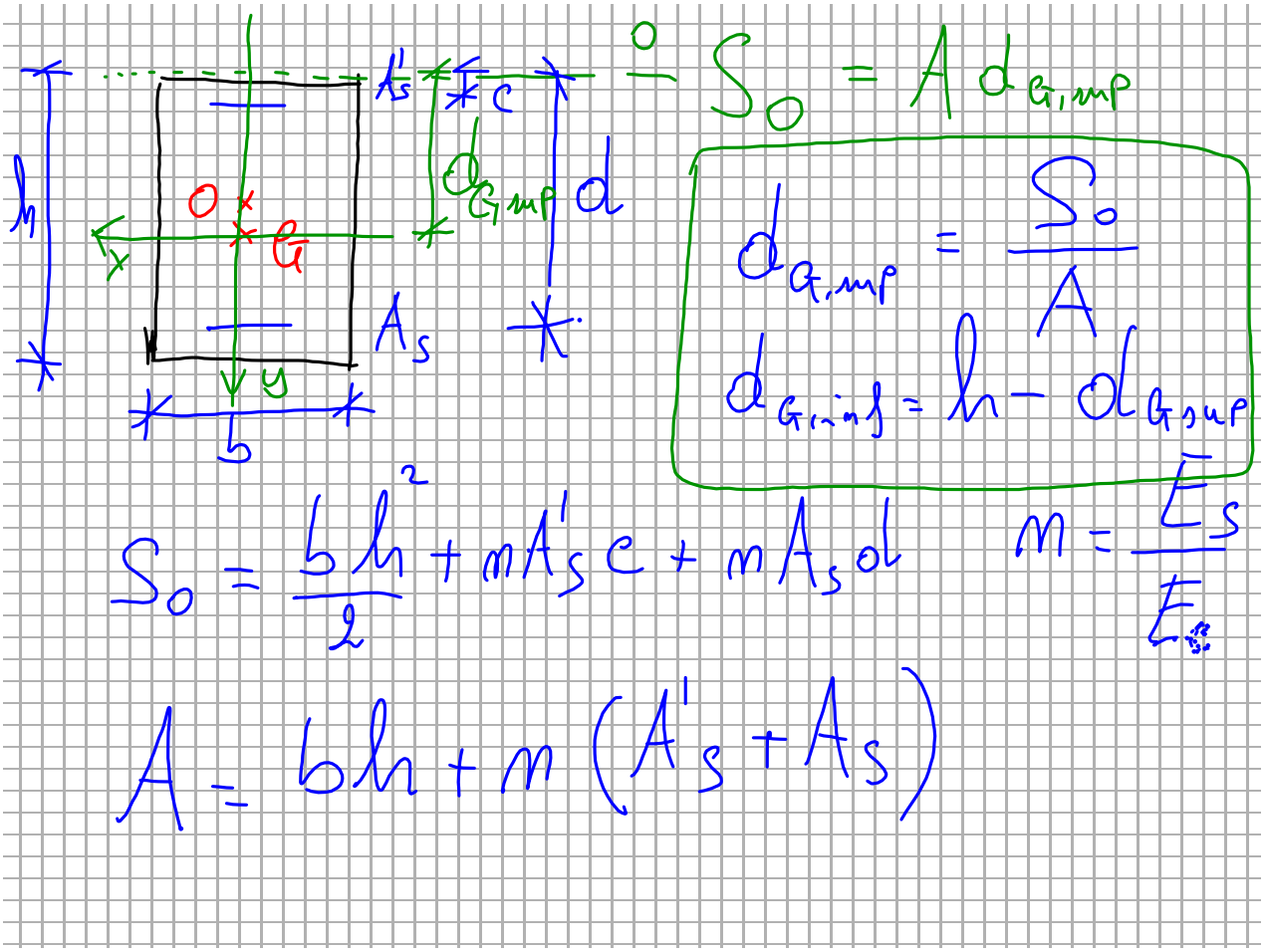
$$\frac{N}{A} - \frac{N\ell_1}{I_x} d_{G,inf} = 0 \qquad \boxed{\ell_1 = \frac{I_x}{A\, d_{G,inf}}}$$

$$\ell_1 = \frac{I_x}{A\, d_{G,inf}}$$

$$\ell_2 = \frac{I_x}{A\, d_{G,sup}}$$



$$\sigma = \frac{N}{A} + \frac{M_x}{I_x} y$$



$$S_0 = A\, d_{G,inf}$$

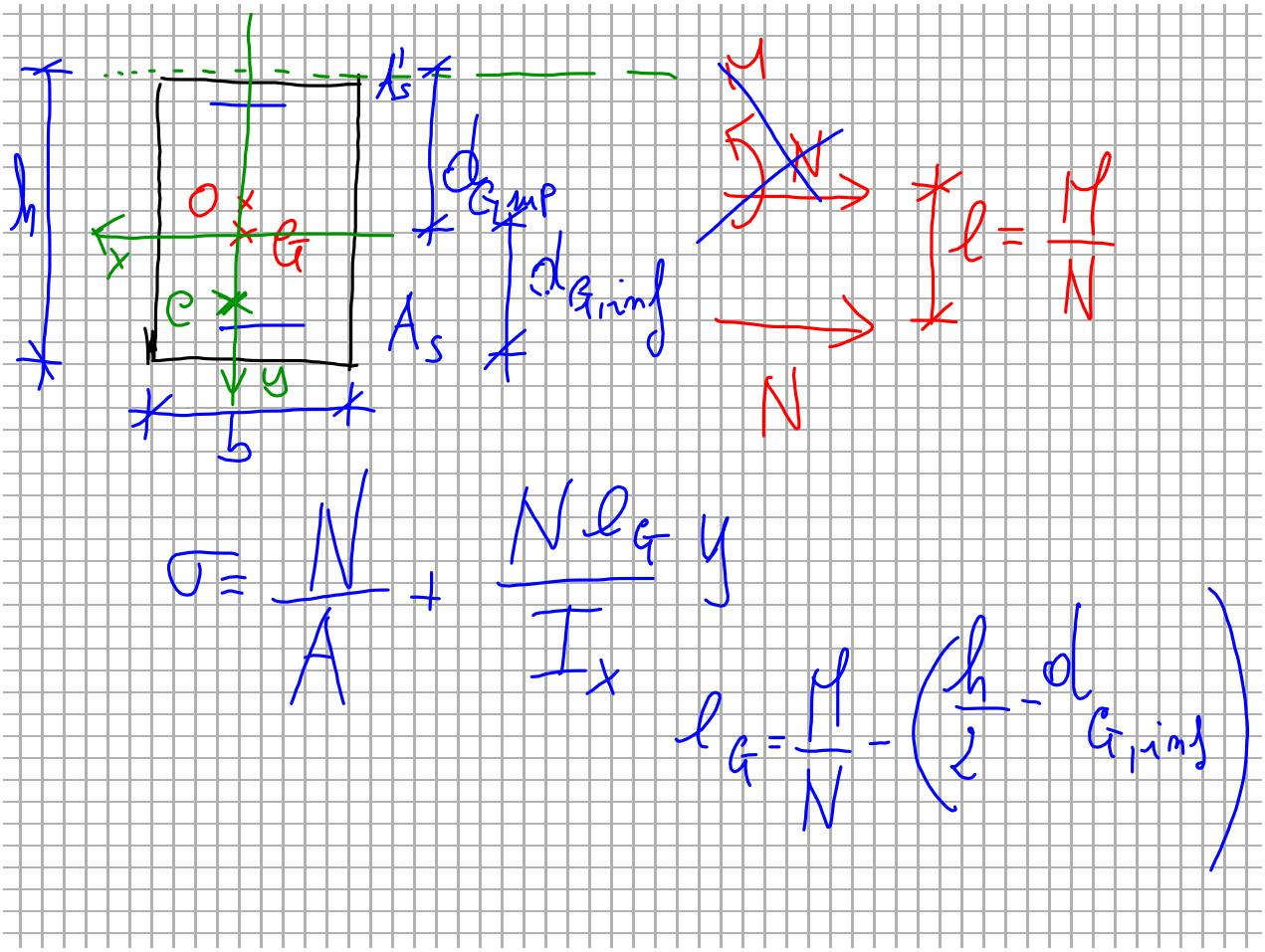
$$d_{G,inf} = \frac{S_0}{A}$$

$$d_{G,sup} = h - d_{G,inf}$$

$$S_0 = \frac{b h^2}{2} + n A'_s c + n A_s d$$

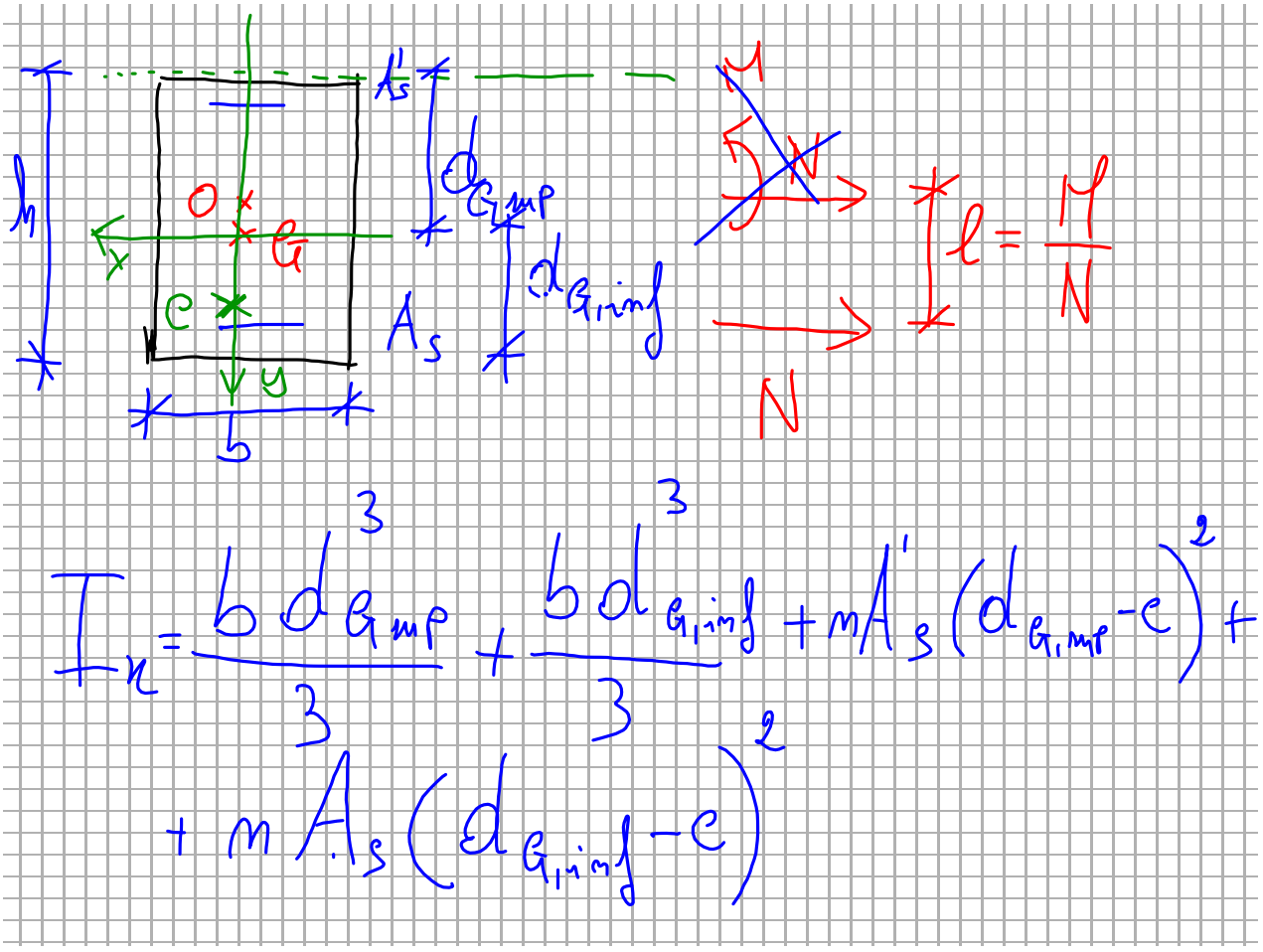
$$n = \frac{E_s}{E_{cm}}$$

$$A = bh + n\left(A'_s + A_s\right)$$



$$\sigma = \frac{N}{A} + \frac{N l_G y}{I_x}$$

$$l_G = \frac{M}{N} - \left(\frac{h}{2} - d_{G,inf}\right)$$



$$I_x = \frac{b d_{G,imp}^3}{3} + \frac{b d_{G,inf}^3}{3} + m A'_s \left(d_{G,imp} - c\right)^2 + m A_s \left(d_{G,inf} - c\right)^2$$