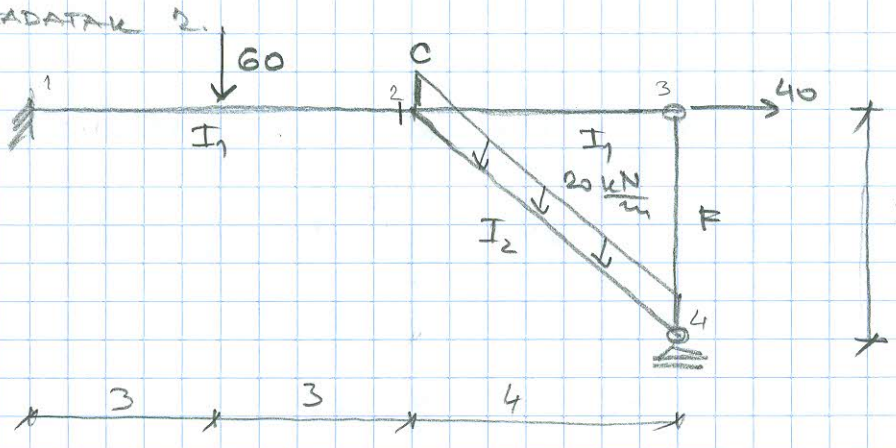
MNOŽENJE UTICAJNE LINIJE SA SILOM I MOMENTOM

3.4.2004.

ZADATAK 2.



k-čvor

$z_0 = 3$

$z_u = 1$

$z_k = 2$

$z_s = 4$

$k = 4$

$n = 3+1+2+4-2\cdot 4 = 2$

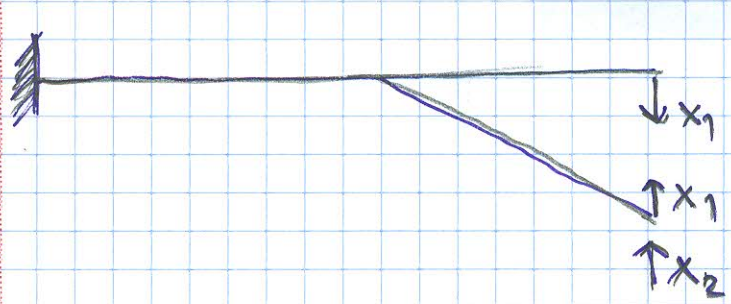
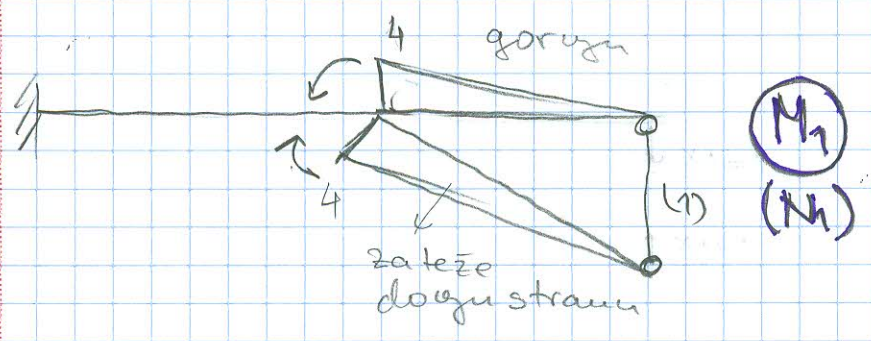
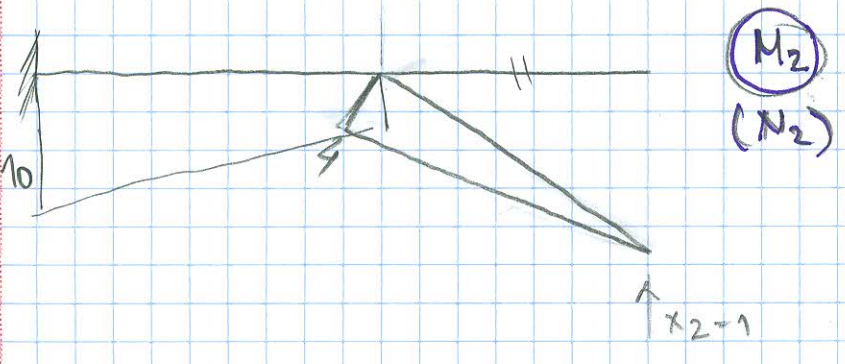
① TREBA MI OSNOVNI SISTEM $X_1 = 1$ $X_2 = 1$

(1) b/2h (F) b/h (2) b/1,5h $E = 3\cdot 10^7\ kN/m^2$

$b/h = 0{,}3 / 0{,}4\ m$

$I_1 = I_c$ $\quad \frac{I_c}{I_2} = \left(\frac{bh_c^3}{bh_2^3}\right) = \left(\frac{h_c}{h_2}\right)^3 = \left(\frac{2k}{1{,}5k}\right)^3 =$

$\frac{I_c}{I_2} = \left(\frac{4}{3}\right)^3 = \frac{64}{27}$

$\frac{I_c}{F} = \frac{\frac{1}{12}bh_c^3}{b\cdot h} = \frac{1}{12}\frac{8h^3}{h} = \frac{2}{3}\cdot h^2 = \frac{2}{3}\cdot 0{,}4^2 = \frac{0{,}32}{3}$

OSNOVNI SISTEM