

$$W_9^* = \frac{\lambda}{6} (2p_8^d + p_9^l) = \frac{3}{6} (2 \cdot 3,75 + 3) = 5,25$$

$$W_9^* = \frac{\lambda}{6} (p_8^d + 2p_9^l + 2p_9^d + p_{10}^l) = \frac{3}{6} (3,75 + 2 \cdot 3 + 2 \cdot 2 + 1,5) = 7,625$$

$$W_{10}^* = \frac{\lambda}{6} (p_9^d + 2p_{10}^l + 2p_{10}^d + p_{11}^l) = \frac{3}{6} (2 + 4 \cdot 1,5 + 1) = 4,5$$

$$W_{11}^* = \frac{\lambda}{6} (p_{10}^d + 2p_{11}^l + 2p_{11}^d + p_{12}^l) = \frac{3}{6} (1,5 + 2 \cdot 1 + 2 \cdot 1,5 + 0) = 3,25$$

$$W_{13}^* = \frac{\lambda}{6} (p_{12}^d + 2p_{13}^l + 2p_{13}^d + p_{14}^l) = \frac{3}{6} (0 + 4 \cdot 1,5 + 3) = 4,5$$

$$W_{14}^* = \frac{\lambda}{6} (p_{13}^d + 2p_{14}^l) = \frac{3}{6} (1,5 + 2 \cdot 3) = 3,75$$

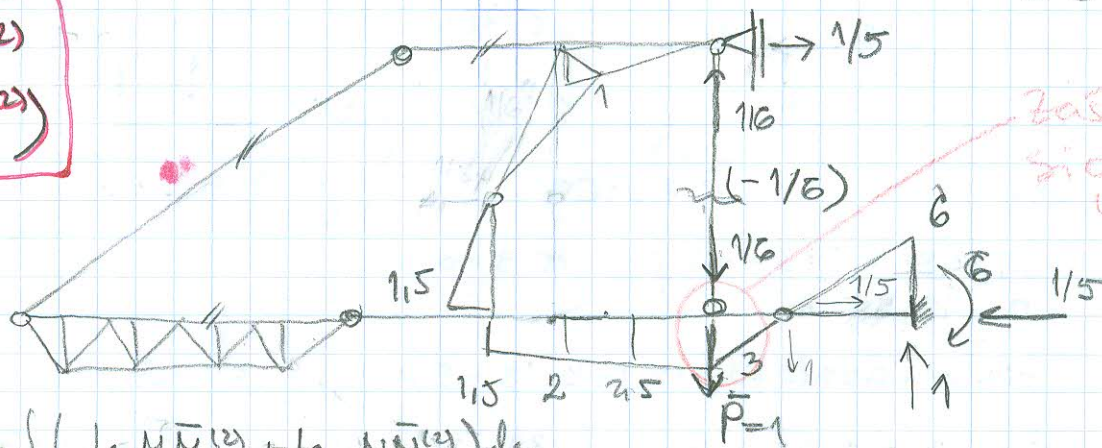
$$Xf_1^* = \dots \text{poz. MOMENT } \underline{M.M.} \text{ poz. VERT. POM.}$$

PA JE DIAGRAM  $\bar{M}^{(12)}$  ISTI KAO  $M^{(12)}$

$$\begin{aligned} Xf_1^* &= \int \left( \frac{I_c}{I} \bar{M}^{(12)} M + \frac{I_c}{F} \bar{N}^{(12)} N \right) ds = \int \left( \frac{I_c}{I} M^2 + \frac{I_c}{F} N^2 \right) ds \\ &= \frac{1}{2} \cdot \left( \frac{6}{3} \cdot 6^2 + \frac{6}{2} \cdot 3^2 \right) + 1 \cdot \frac{\sqrt{3^2 + 7,5^2}}{3} \cdot 9^2 + \frac{1 \cdot 7,5}{3} \cdot 7,5^2 + \frac{1}{2} \cdot \frac{3}{3} (7,5^2 \\ &\quad + 7,5 \cdot 6 + 6^2) + \frac{1}{3} \cdot \frac{6}{3} (6^2 + 6 \cdot 3 + 3^2) + \frac{1}{2} \cdot \frac{9}{3} (3^2 - 3 \cdot 6 + 6^2) + \\ &\quad + 0,1 (15 \cdot 0,5^2 + \sqrt{27^2 + 15^2} \cdot \sqrt{296^2} + 6 \cdot 3 \cdot 1,4^2) = 566,391 \end{aligned}$$

$$Xf_2^* = \dots \text{moment } \underline{M.M} \text{ vertikalno power pozitivno } \Sigma M_c$$

$\bar{M}^{(12)}$   
 $(\bar{N}^{(12)})$



$$Xf_2^* = \int \left( \frac{I_c}{I} M \bar{M}^{(12)} + \frac{I_c}{F} N \bar{N}^{(12)} \right) ds$$

$$= \frac{1}{2} \cdot \frac{6}{3} \cdot 3 \cdot 1 + \frac{\sqrt{3^2 + 7,5^2}}{3} \cdot 1 \cdot 3 + \frac{7,5}{3} \cdot 1,5 \cdot 7,5 + \frac{1}{2} \cdot \frac{3}{6} (7,5(1,5 \cdot 2 + 2) + 6 \cdot (1,5 + 2 \cdot 2))$$

$$+ \frac{1}{3} \cdot \frac{6}{6} (6 \cdot (2 \cdot 2 + 3) + 3(2 + 3 \cdot 2)) + \frac{1}{2} \cdot \frac{3}{3} \cdot 3^2 + \frac{1}{2} \cdot \frac{6}{3} \cdot 6^2 + 0,1 \cdot 15 \cdot \frac{1}{6} \cdot 0,5$$

$$= 117,6082$$