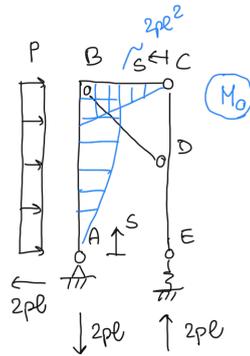


(Docenti: Prof. Ing. Stefano Bennati; Prof. Ing. Riccardo Barsotti)

Prova Scritta telematica del 15 febbraio 2022 – Sintesi della soluzione

Sistema F0



AB) $N_o = 2pl$; $T_o = 2pl - ps$

$M_o = 2pls - \frac{ps^2}{2}$

BC) $N_o = 0$; $T_o = -2pl$

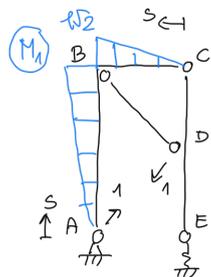
$M_o = -2pls$

BD) $N_o = T_o = 0$; $M_o = 0$

CD) $N_o = -2pl$; $T_o = 0$, $M_o = 0$

DE) $N_o = -2pl$; $T_o = 0$, $M_o = 0$

Sistema F1



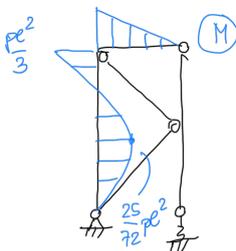
AB) $N_1 = -\frac{\sqrt{2}}{2}$, $T_1 = -\frac{\sqrt{2}}{2}$, $M_1 = -\frac{s\sqrt{2}}{2}$

BC) $N_1 = 0$, $T_1 = \sqrt{2}$, $M_1 = s\sqrt{2}$

BD) $N_1 = -1$, $T_1 = 0$, $M_1 = 0$

CD) $N_1 = \sqrt{2}$, $T_1 = 0$, $M_1 = 0$

DE) $N_1 = T_1 = 0$, $M_1 = 0$



$\eta_{10} = -\frac{7\sqrt{2}pl^4}{3EJ}$

$\eta_{11} = \frac{2l^3}{EJ}$

$X_1 = \frac{7\sqrt{2}}{6}pl$

Spostamento del nodo C. Componente orizzontale = $u_0 + 2v_0 + 4pl/k$ (verso destra);
componente verticale = $v_0 + 2pl/k$ (verso il basso).

Deformata del sistema.

