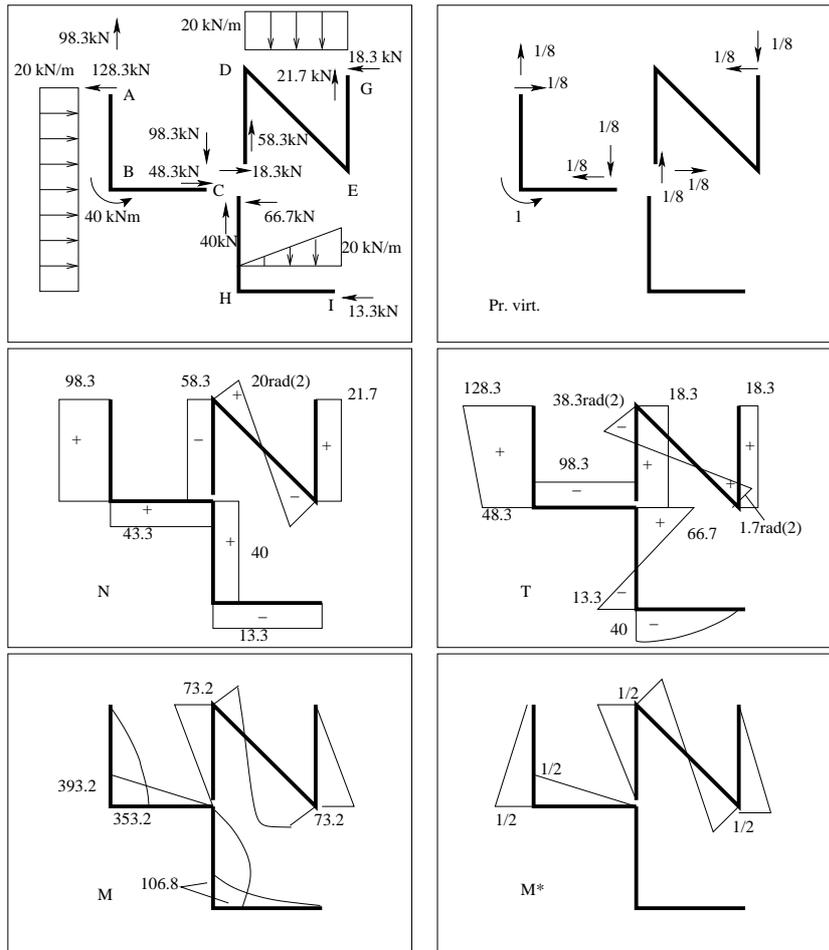


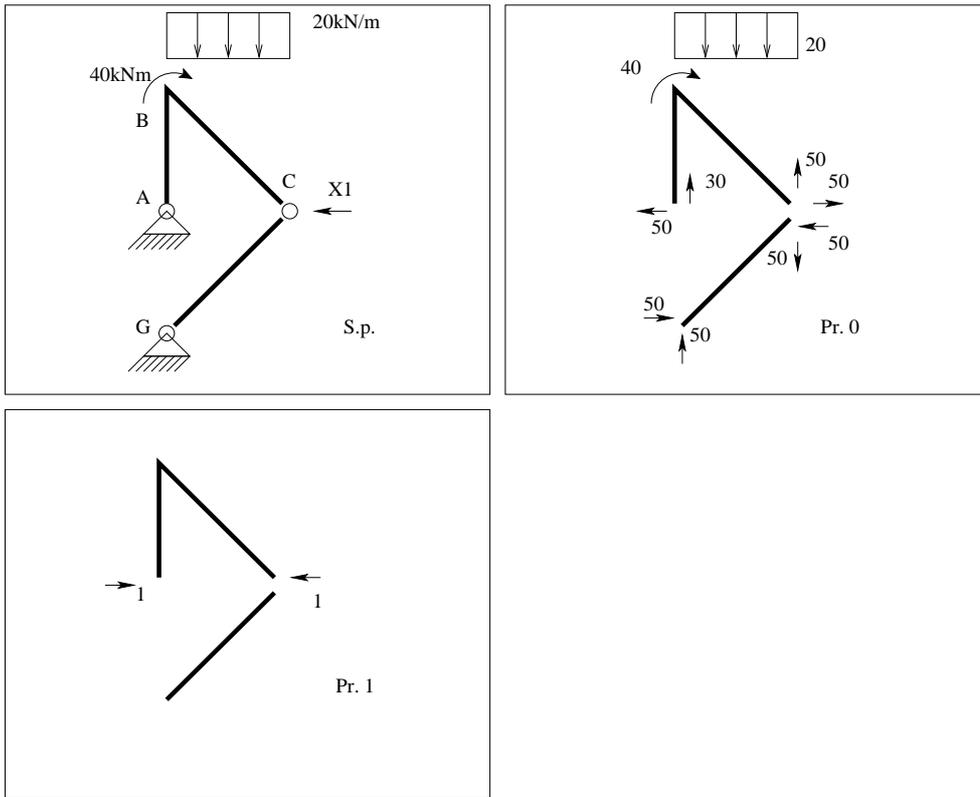
Esercizio 1:



	N	T	M	M*
AB	98.3	$128.3 - 20x$	$-128.3x + 10x^2$	$\frac{x}{8}$
BC	48.3	-98.3	$-393.2 + 98.3x$	$-\frac{1}{2} + \frac{x}{8}$
CD	-58.3	18.3	$-18.3x$	$-\frac{x}{8}$
DE	$20\sqrt{2} - 10x$	$-38.3\sqrt{2} + 10x$	$-73.2 + 38.3\sqrt{2}x - 5x^2$	$-\frac{1}{2} + \frac{\sqrt{2}}{8}x$
GE	21.7	18.3	$-18.3x$	$-\frac{x}{8}$
CH	40	$66.7 - 20x$	$-66.7x + 10x^2$	0
HI	-13.3	$-40 + \frac{5}{2}x^2$	$-106.8 + 40x - \frac{5}{6}x^3$	0

$$1\varphi_B = \frac{1}{EI} \int_{\mathcal{D}} MM^* dx = 0.0026 \text{ rad}$$

Esercizio 2: Per simmetria di geometria e carichi si considera mezza struttura, considerando un carrello a scorrimento verticale in C. Quest'ultimo viene sostituito dalla sua reazione vincolare (unica incognita iperstatica) nella struttura principale.



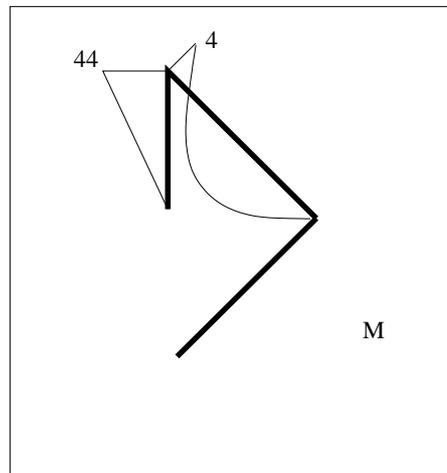
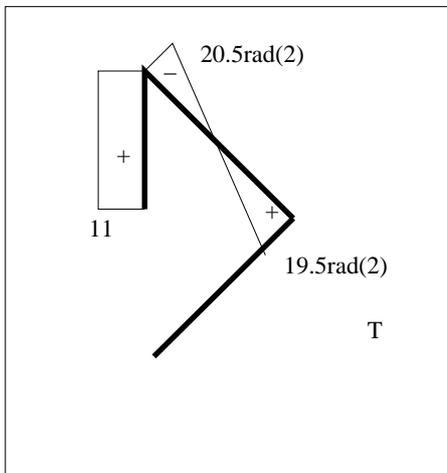
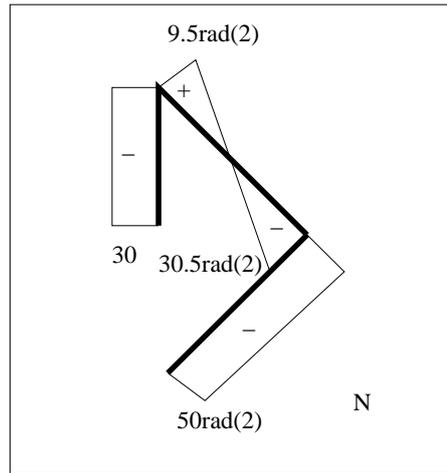
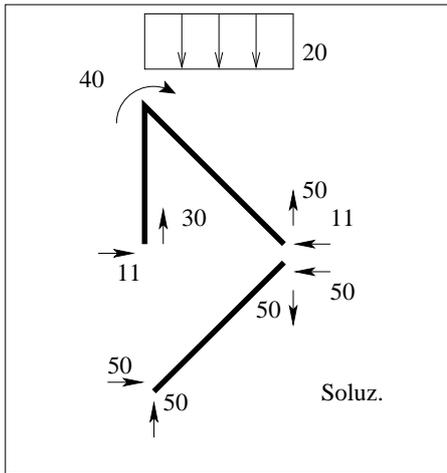
	N_0	M_0	N'_1	M'_1
AB	-	$50x$	-	$-x$
CB	-	$-50\sqrt{2}x + 5x^2$	-	$x\sqrt{2}/2$
CG	$50\sqrt{2}$	0	0	0

$$\eta_{11} = \frac{51.5}{EI}$$

$$\eta_{10} = -\frac{3178.6}{EI}$$

$$\bar{\eta}_1 = 0$$

$$\chi_1 = 61.7 \text{ kN}$$



Esercizio 3: Manca.