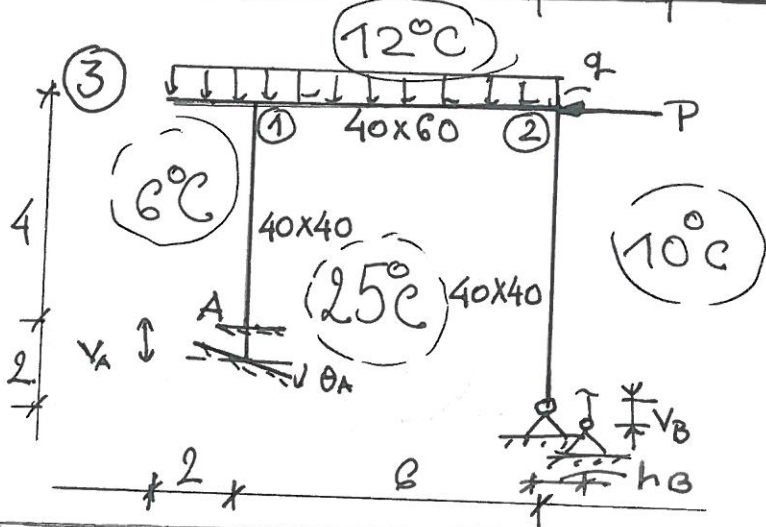
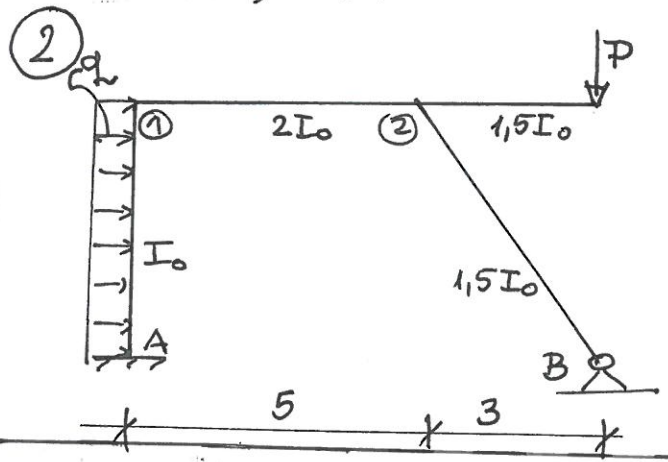
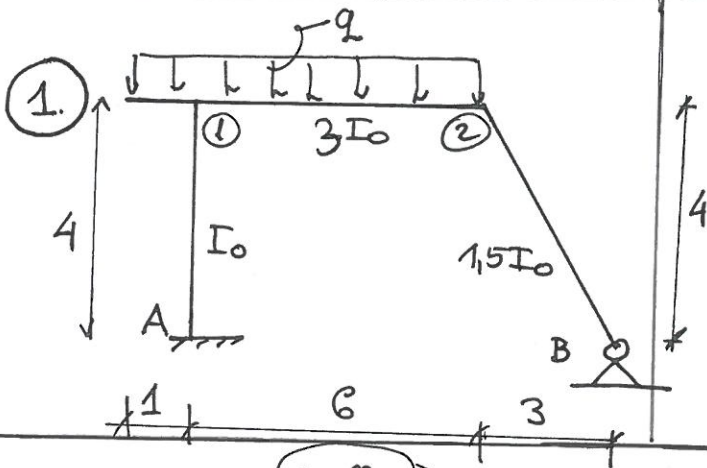


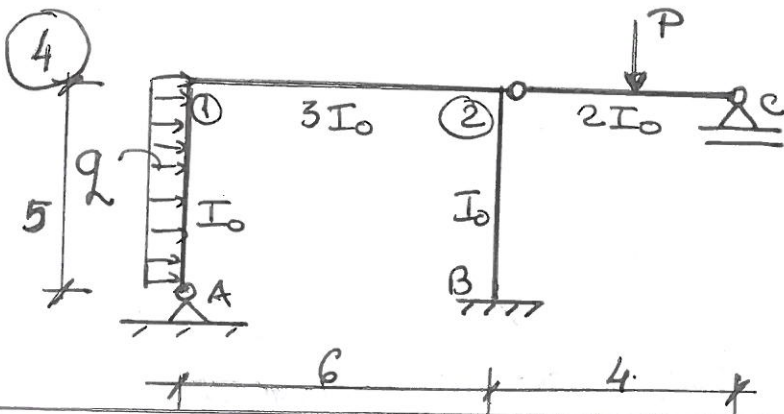
# METODA FORTELOR (EFORTURILOR)

Găsește traseze diagramele de eforturi  $M, T, N$ , pt. următoarele structuri:



Pentru structura din figură să se traseze diagramele de eforturi pentru fiecare din cele trei cazuri de încărcare:

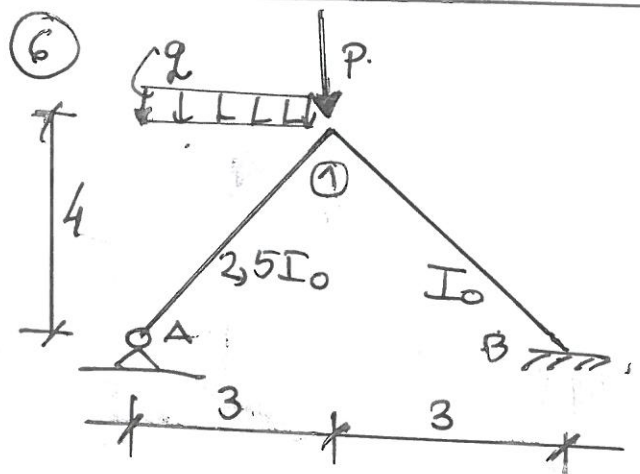
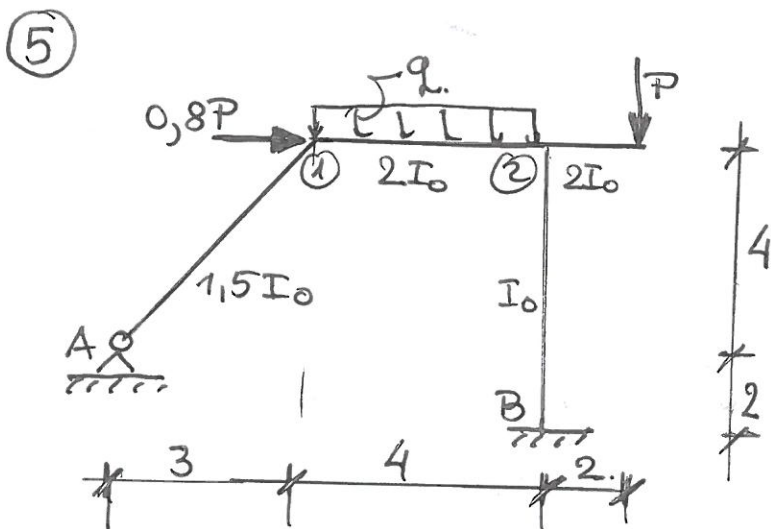
- Forțe exterioare  $M^e, T^e, N^e$
- Variație de temperatură  $M^t, T^t, N^t$   $\alpha^t = 10^{-5} \text{ grad}^{-1}$
- Cedări de reazem  $M^r, T^r, N^r$   
 $V_A = 1 \text{ cm}, \theta_A = 0,5^\circ$   
 $V_B = 1,5 \text{ cm}, h_B = 0,5 \text{ cm}$   
 $E = 2 \cdot 10^7 \text{ kN/m}^2$



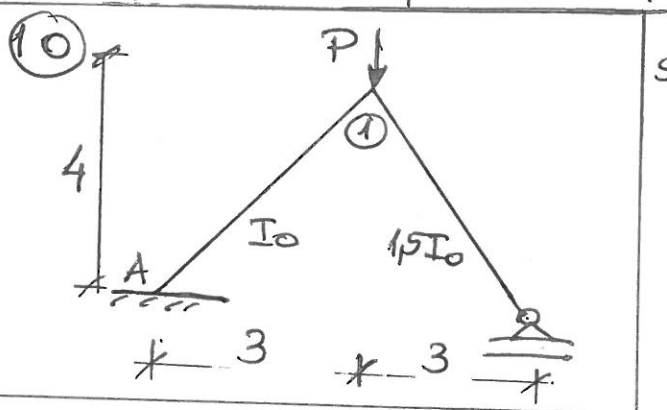
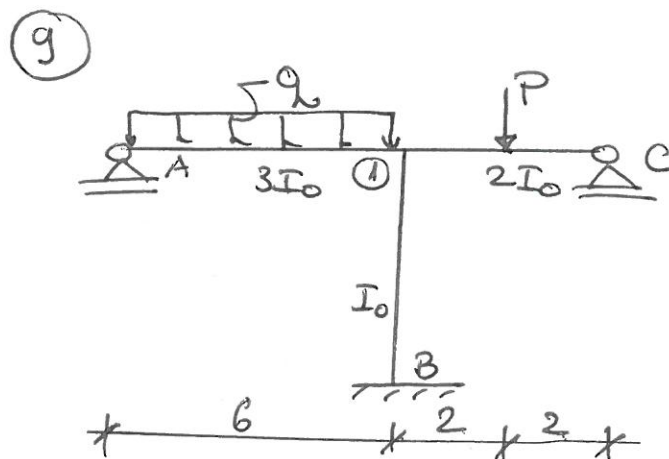
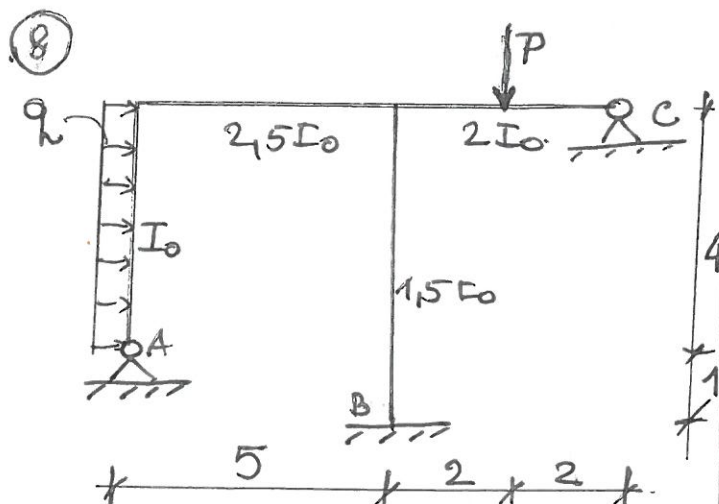
$$P = 20 + 0,5n \text{ kN}$$

$$q = 8 + 0,5n \text{ kN/m}$$

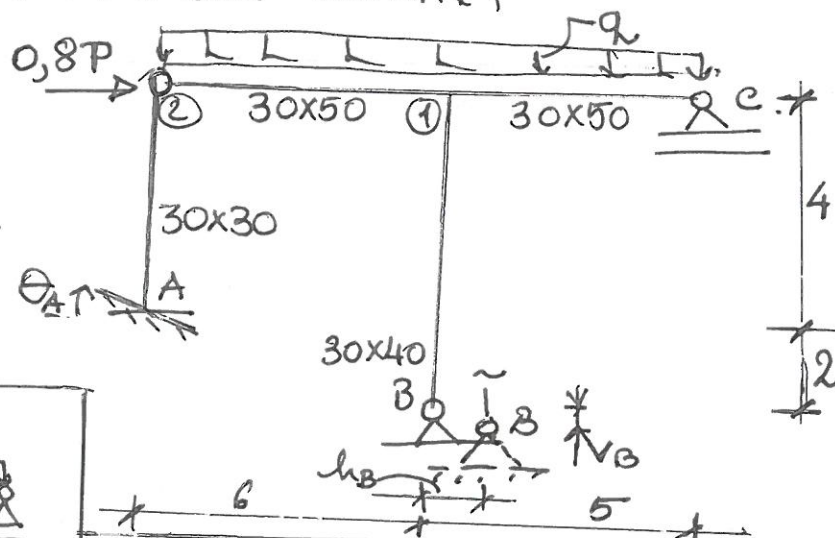
\* n este nr. de ordine din grupă



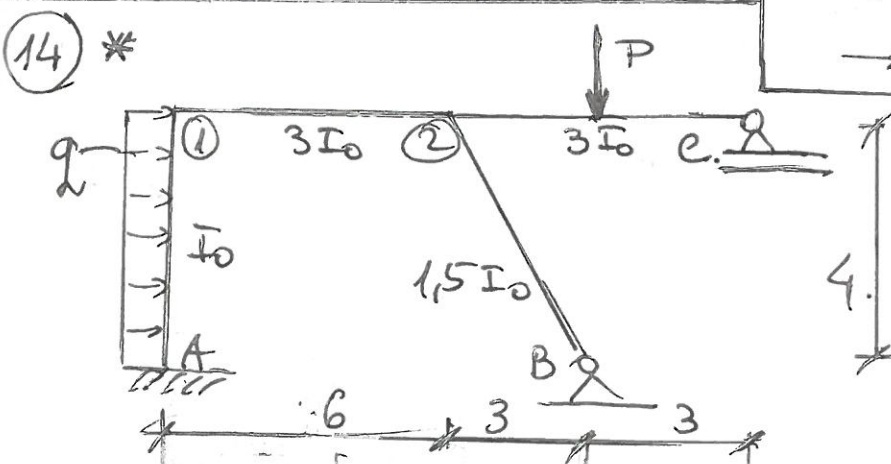
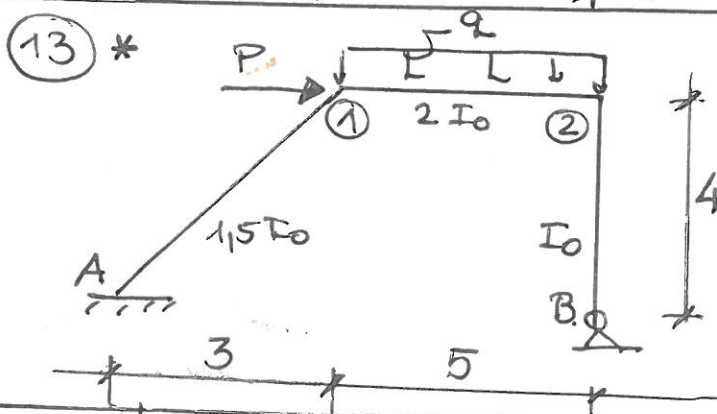
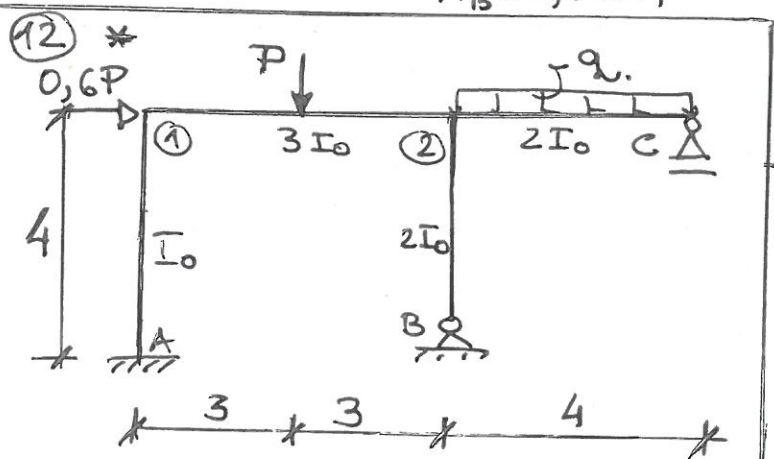
# METODA DEPLASĂRILOR



11) Pentru structura din fig. să se găsească diagr.  $M, T, N$  aferente fiecărei încărcări, utilizând M.D. (clasic sau iterativ)



$\alpha^* = 10^{-5} \text{ grad}$        $\theta = 1^\circ$   
 $E = 2 \cdot 10^7 \text{ KN/m}^2$        $v_B = 1 \text{ cm}$   
 $h_B = 0,5 \text{ cm}$



Structurile marcate cu \* se vor calcula cu M.D. iterativ în două etape.