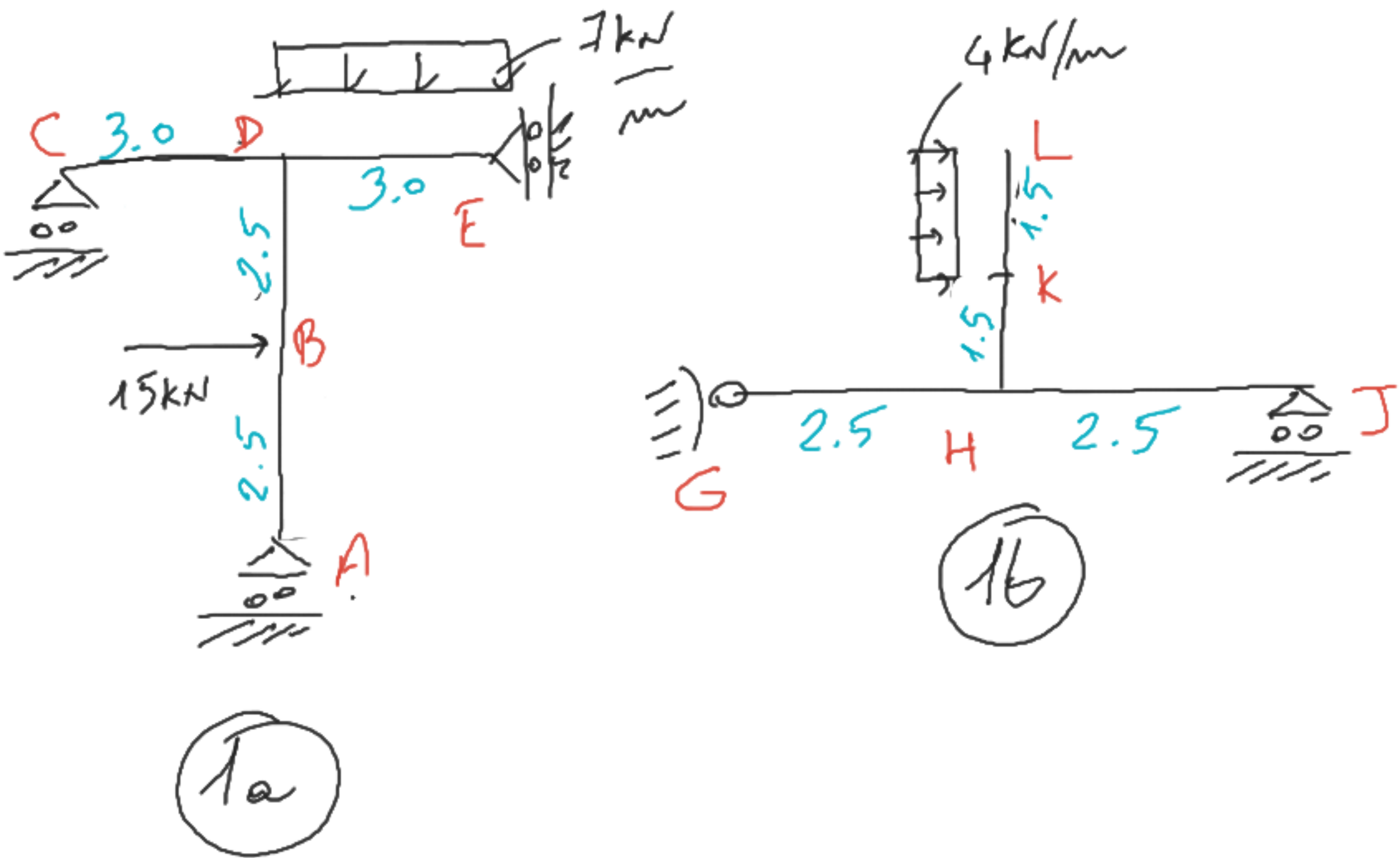


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ES.1

60 min



• R.V. in A, C, E, G, J  
col metodo sintetico

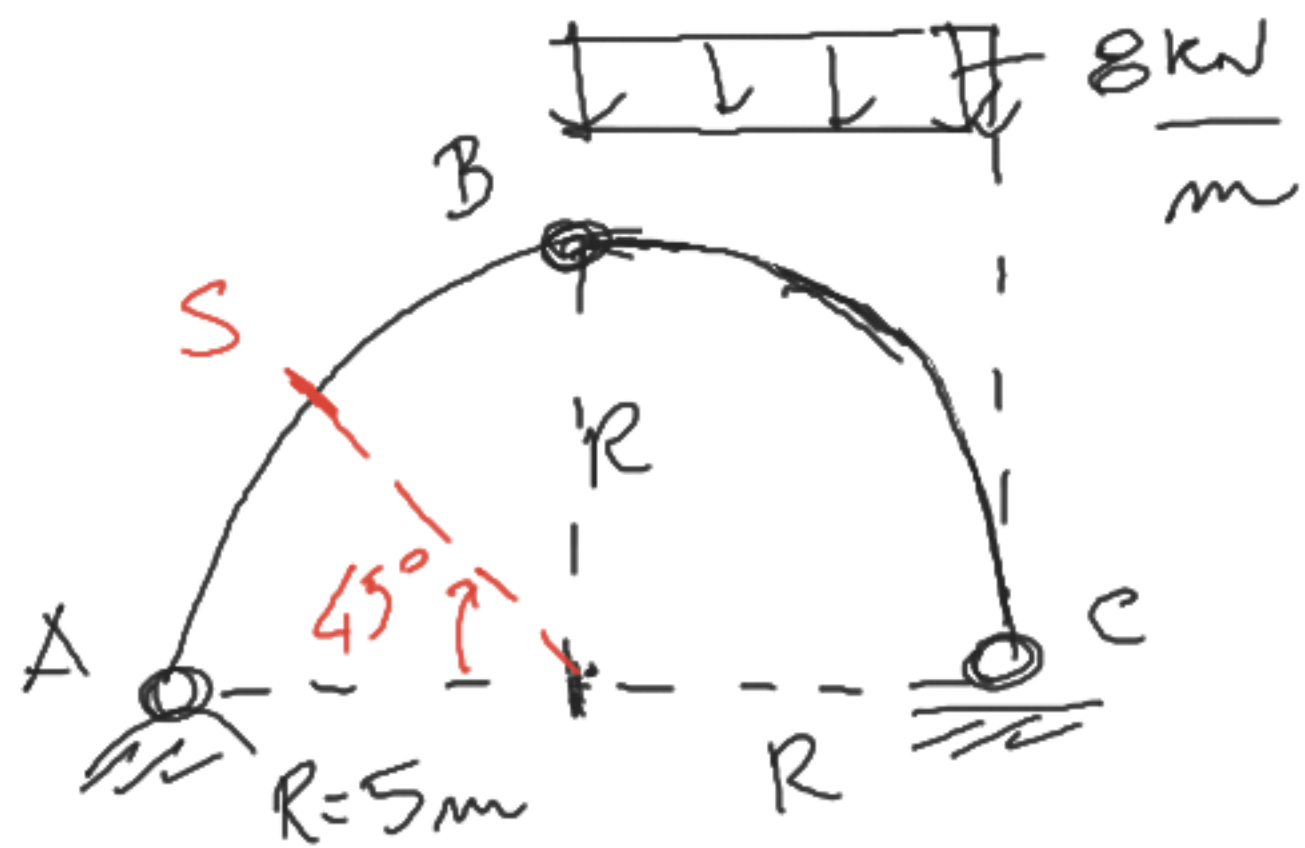
• Diagrammi qualitativi  
di N, T, M dove  $\neq 0$

1a { • Si determineranno le  
R.V. in A, C, E col  
procedimento generale

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ES.3

45min

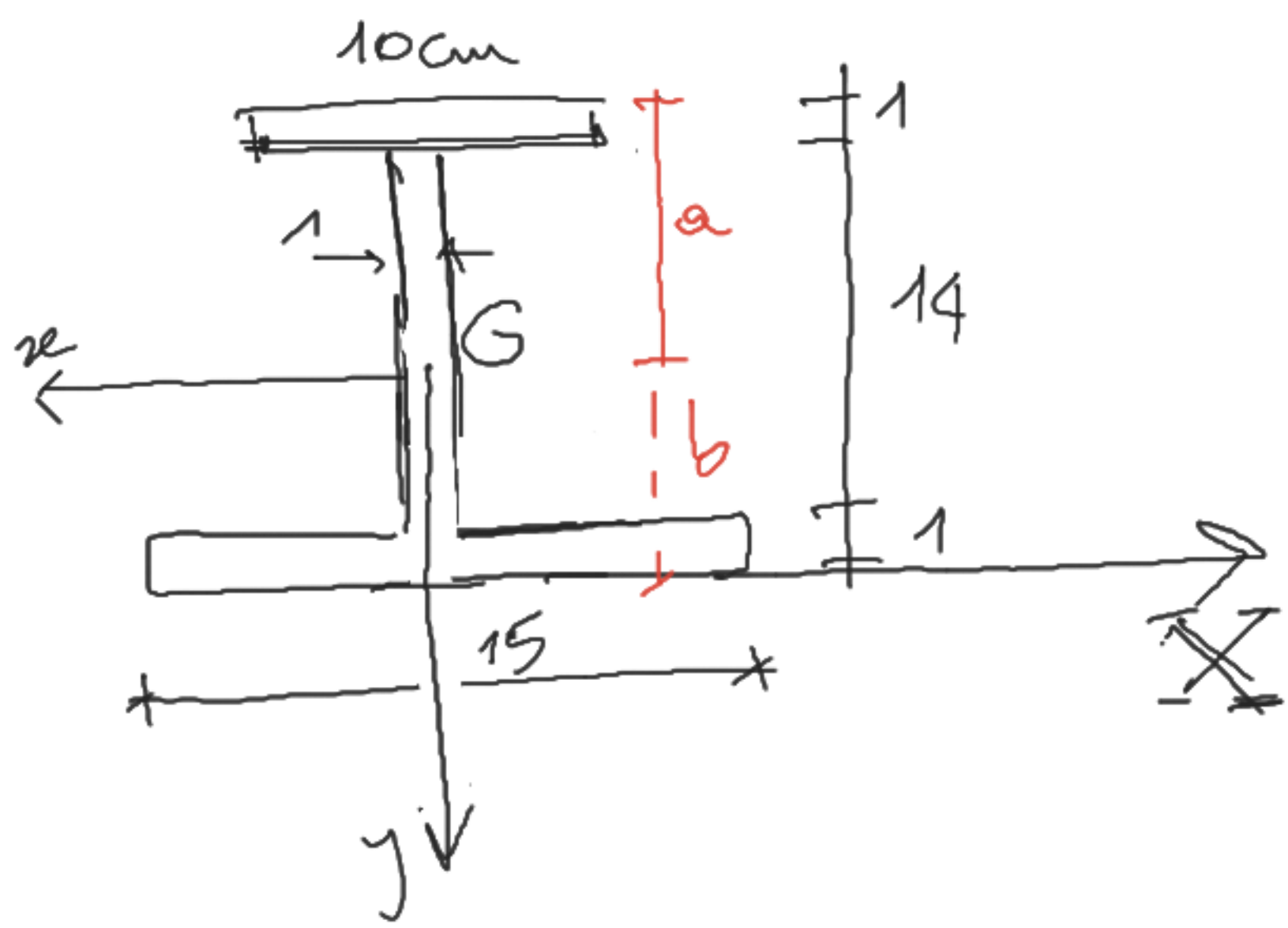


- R.V. in A e C col procedimento delle equazioni ausiliarie (in subordinate generale)
- N, T in S col metodo grafico
- Ri-determinare le R.V. col metodo grafico e tracciare le C.d.P.

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ES. 4

40 min



• Determinare  $a, b, I_x$ .

• Diagramma  $\sigma_z$  e valore di  $\sigma_z^{max}$  per

$$M_x = 20 \text{ kNm}$$

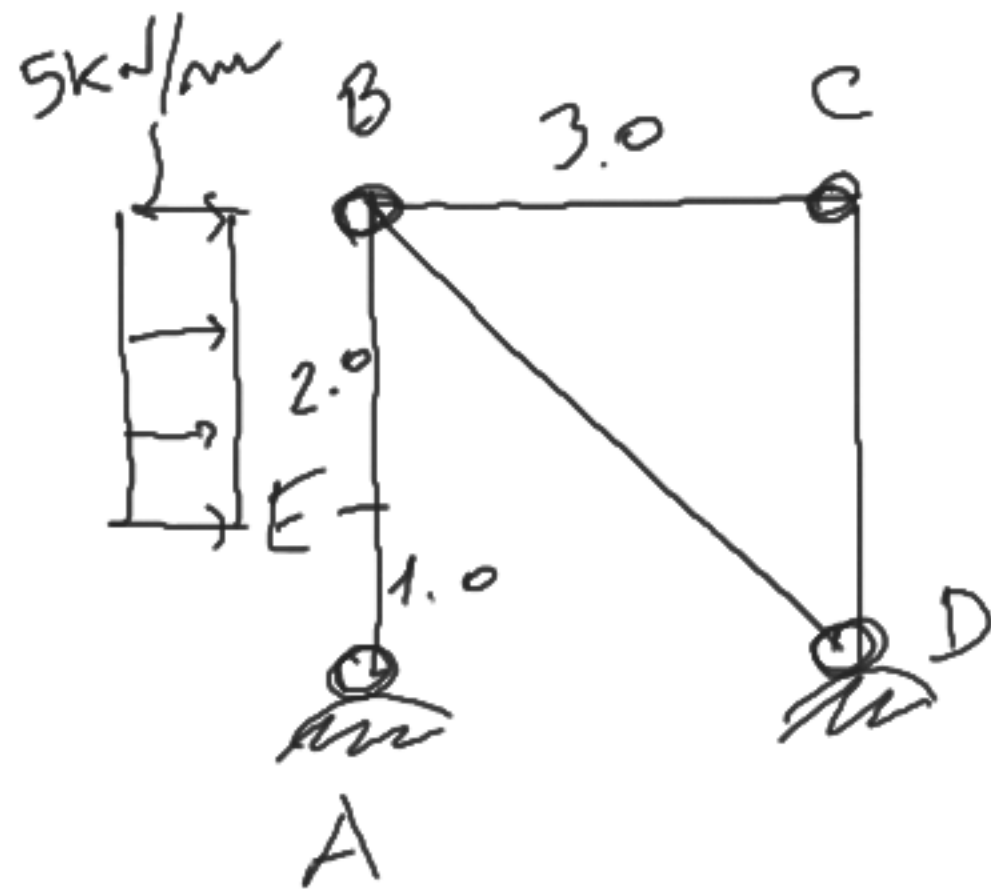
• Diagramma  $\sigma_z$  e valore di  $\sigma_z^{max, min}$  per  $N = -100 \text{ kN}$

$$\text{e } M_x = 20 \text{ kNm}$$

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ES.2

50 min



• R.V. ext (A, D)

• Sforzi normali in tutte le aste

• Diagramme T, M dove  $\neq 0$

• Abbassamento punto B suppo =

membr  $E = 210000 \frac{N}{mm^2}$  e

area =  $2 \text{ cm}^2$  del tratto <sup>mm</sup> AB

