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APPUNTI FACILI PER TUTTI



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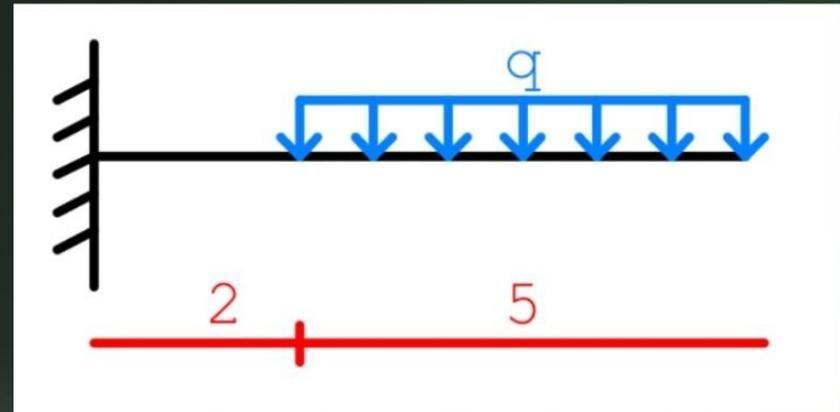


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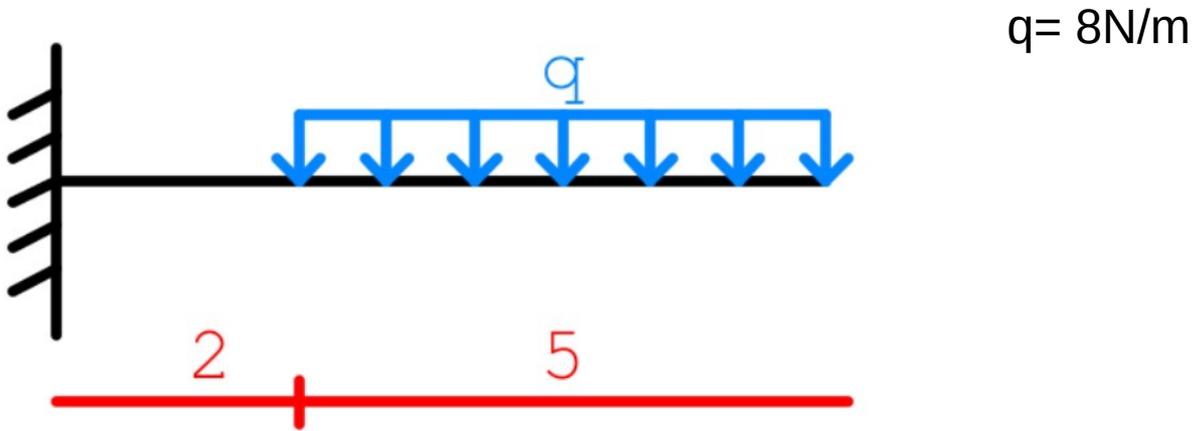
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Esercizi sulle travi isostatiche



TRAVE ISOSTATICA 3

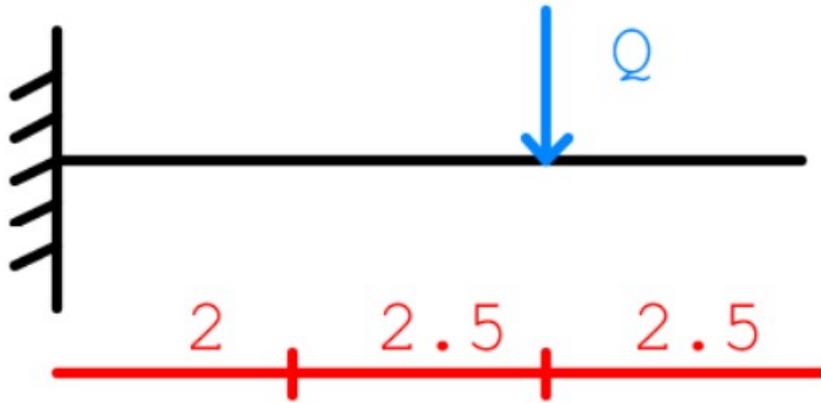
Determinare le reazioni vincolari della trave in figura



TRAVE ISOSTATICA 3

Determinare le reazioni vincolari della trave in figura

1. Sostituire al carico distribuito q , il corrispondente carico concentrato Q

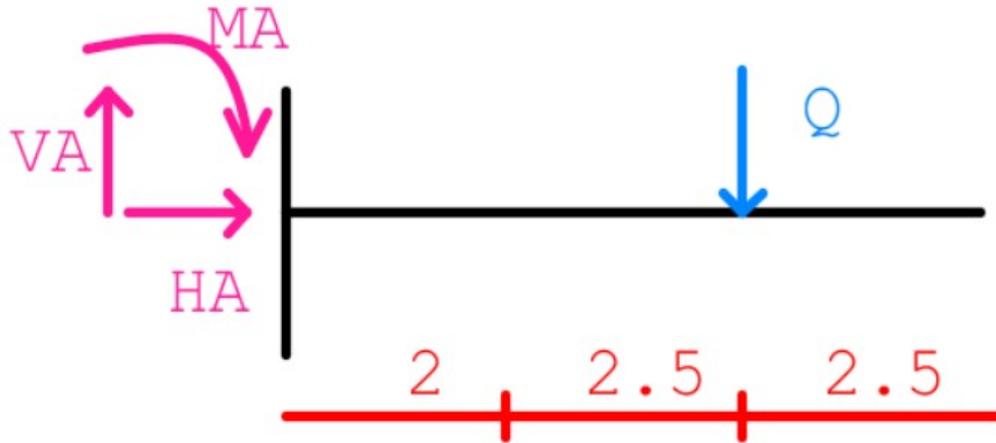


$$Q = ql = 8 \cdot 5 = 40 \text{ N}$$

TRAVE ISOSTATICA 3

Determinare le reazioni vincolari della trave in figura

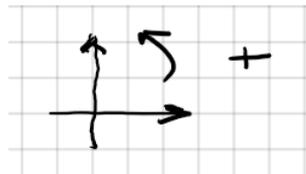
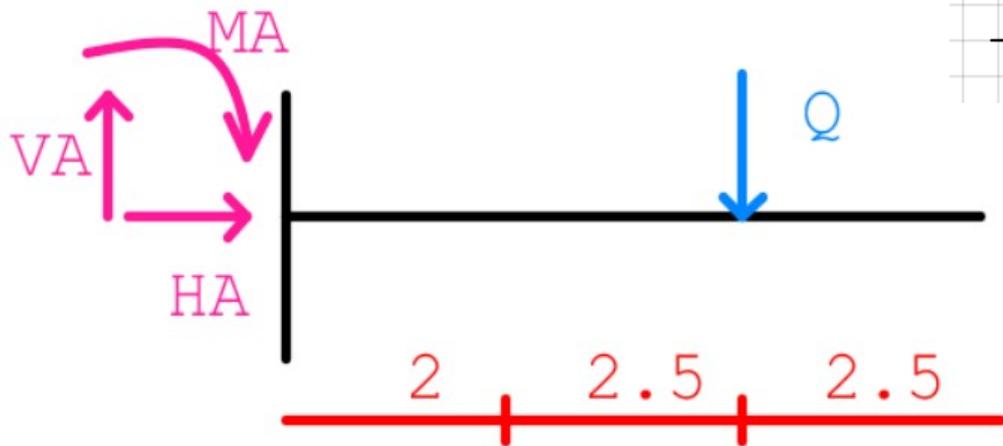
2. Sostituire al vincolo di incastro le reazioni corrispondenti



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Determinare le reazioni vincolari della trave in figura

3. Scrivere le equazioni della statica

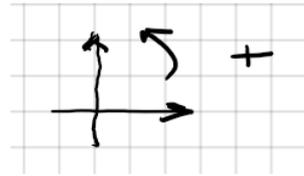
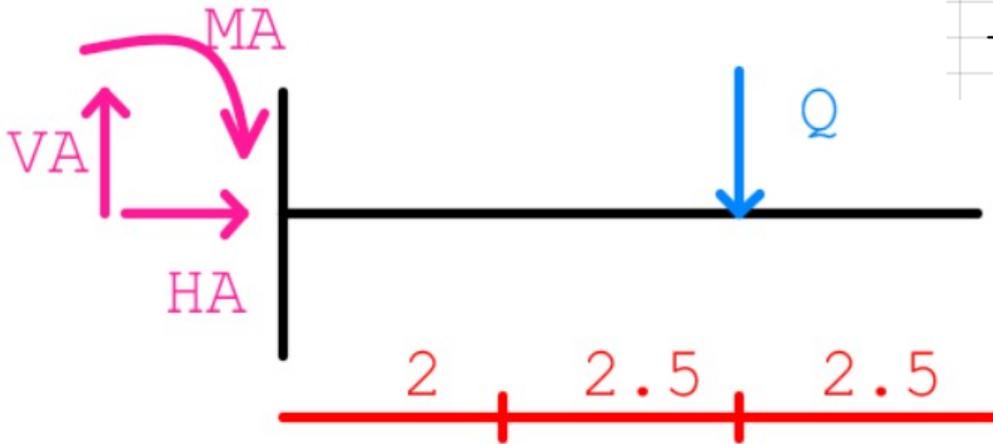


$$\begin{cases} \Sigma_x : 0 = H_A \\ \Sigma_y : 0 = V_A - Q \\ \Sigma_{M(A)} : 0 = -M_A - Q \cdot 4.5 \end{cases}$$

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Determinare le reazioni vincolari della trave in figura

4. Risolvere il sistema



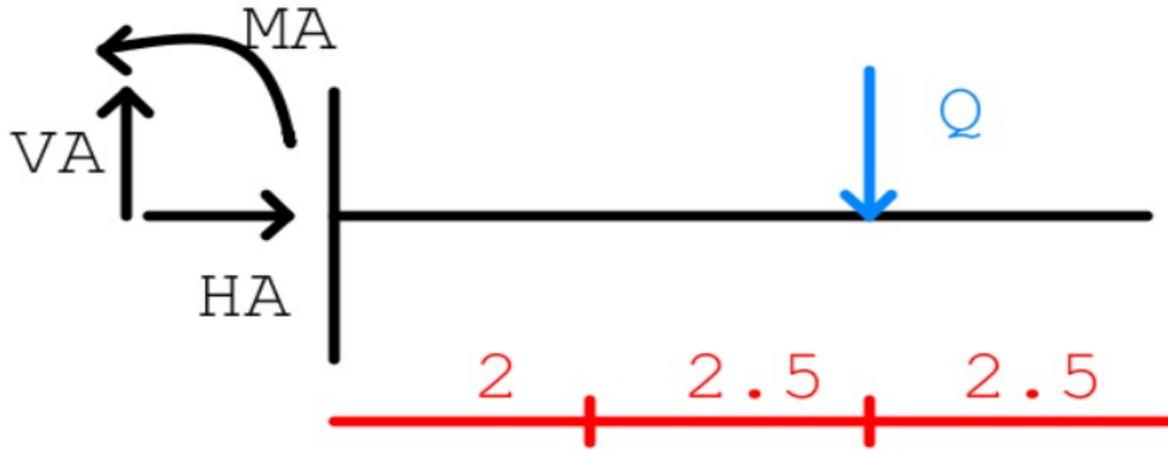
$$\begin{cases} \Sigma_x : 0 = HA \\ \Sigma_y : 0 = VA - Q \\ \Sigma_{M(A)} : 0 = -MA - Q \cdot 4.5 \end{cases}$$

$$\begin{cases} \Sigma_x : 0 = HA \\ \Sigma_y : VA = Q = 40 \text{ N} \\ \Sigma_{M(A)} : 0 = -MA - 180 \end{cases}$$

$$\begin{cases} \Sigma_x : 0 = HA \\ \Sigma_y : VA = 40 \text{ N} \\ \Sigma_{M(A)} : \mathbf{MA = -180 \text{ N}} \end{cases}$$

TRAVE ISOSTATICA 3

Determinare le reazioni vincolari della trave in figura



$$\begin{cases} \Sigma_x : 0 = H_A \\ \Sigma_y : V_A = 40 \text{ N} \\ \Sigma_{M(A)} : M_A = -180 \text{ N} \end{cases}$$

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