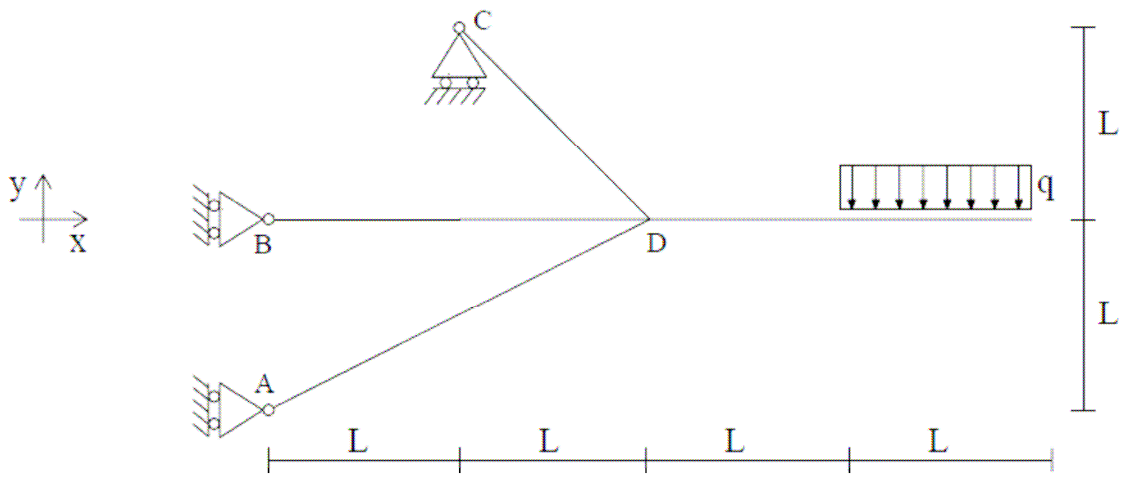
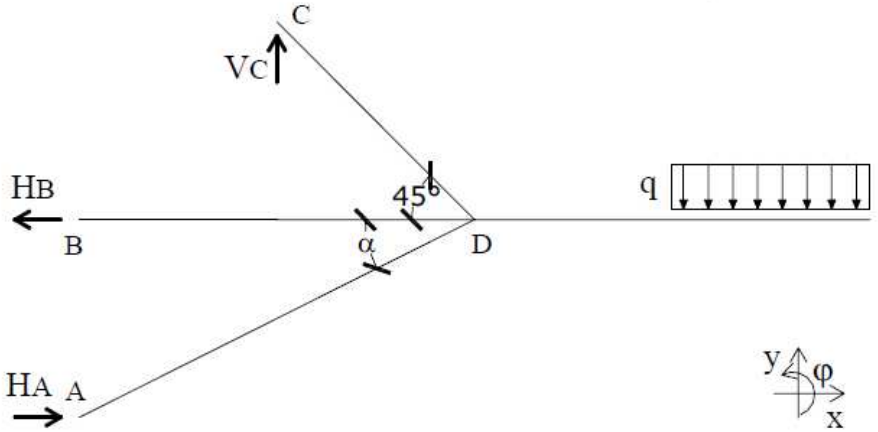
Esercizio 2



Convenzioni positive: forze spostamenti



$$AD = \sqrt{L^2 + (2L)^2} = \sqrt{5}L$$

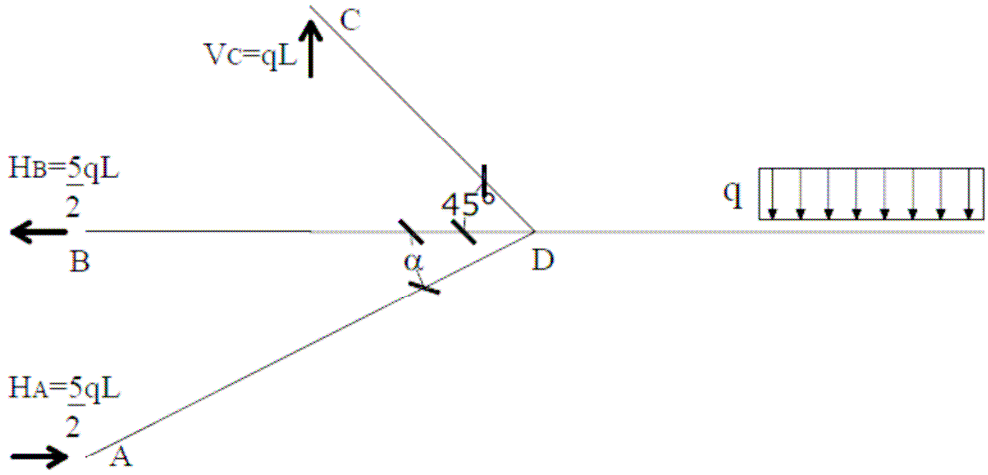
$$sen\alpha = \frac{L}{\sqrt{5}L} = \frac{1}{\sqrt{5}}$$

$$\cos\alpha = \frac{2L}{\sqrt{5}L} = \frac{2}{\sqrt{5}}$$

Equazioni di equilibrio globale

1) $// y : \boxed{V_C = qL}$

2) $(Polo\ B): H_A \times L + V_C \times L - qL \times (3L + L/2) = 0 \Rightarrow \boxed{H_A = 5/2\, qL}$

3) $// x : H_B = H_A \Rightarrow \boxed{H_B = 5/2\, qL}$

Schema reazioni vincolari