

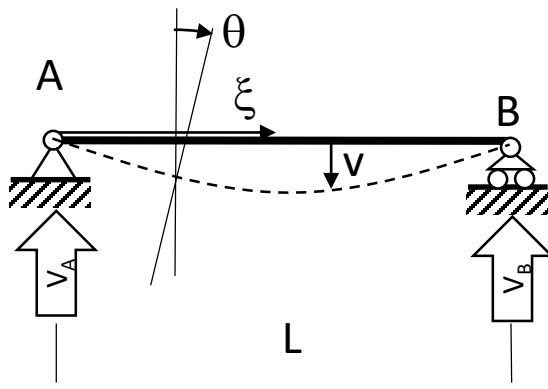
$$a + b = L$$

$$\alpha = \frac{a}{L}$$

$$\beta = \frac{b}{L}$$

$$\xi' = L - \xi$$

	$V_A = \frac{Pb}{L} \quad V_B = \frac{Pa}{L} \quad v_C = \frac{PL^3}{3EJ} \alpha^2 \beta^2$ $\theta_C = \frac{PL^2}{3EJ} \alpha \beta (\beta - \alpha) \quad \theta_A = \frac{PL^2}{6EJ} \beta (1 - \beta^2) \quad \theta_B = \frac{PL^2}{6EJ} \alpha (\alpha^2 - 1)$ $M_{\max} = M_C = P \frac{ab}{L}$ $v_{\max} = \begin{cases} \frac{PL^3}{9\sqrt{3}EJ} \beta (1 - \beta^2)^{\frac{3}{2}} & a \geq b \\ \frac{PL^3}{9\sqrt{3}EJ} \alpha (1 - \alpha^2)^{\frac{3}{2}} & a \leq b \end{cases}$ $v(\xi) = \begin{cases} \frac{PL^3}{6EJ} \beta \frac{\xi}{L} \left( 1 - \beta^2 - \frac{\xi^2}{L^2} \right) & 0 \leq \xi \leq a \\ \frac{PL^3}{6EJ} \alpha \frac{\xi'}{L} \left( 1 - \alpha^2 - \frac{\xi'^2}{L^2} \right) & a \leq \xi \leq b \end{cases}$
	$V_A = V_B = \frac{qL}{2}$ $M_{\max} = \frac{qL^2}{8}$ $v_{\max} = \frac{5qL^4}{348EJ} \quad \theta_A = -\theta_B = \frac{qL^3}{24EJ}$ $v(\xi) = \frac{qL^4}{24EJ} \left( \frac{\xi}{L} - 2\frac{\xi^3}{L^3} + \frac{\xi^4}{L^4} \right)$
	$V_A = \frac{qa(a+2b)}{2L} \quad V_B = \frac{qa^2}{2L}$ $M_{\max} = \frac{qa^2(a+2b)^2}{4L^2}$



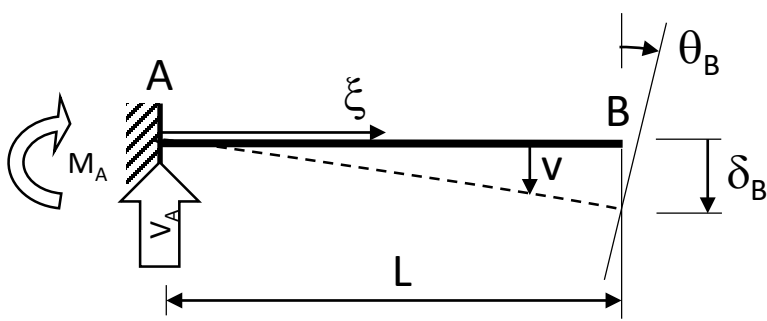
$$a + b = L$$

$$\alpha = \frac{a}{L}$$

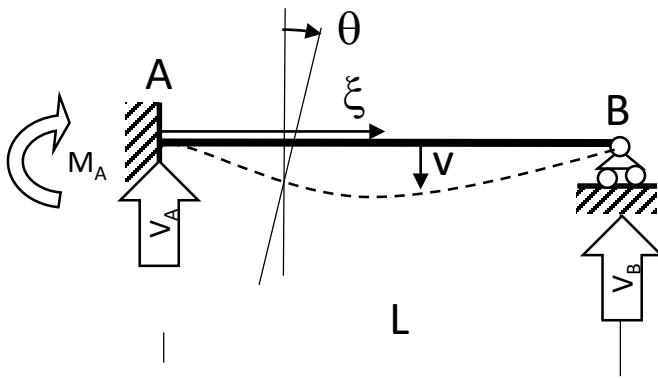
$$\beta = \frac{b}{L}$$

$$\xi' = L - \xi$$

	$V_A = \frac{q_{\max} L}{6} \quad V_B = \frac{q_{\max} L}{3}$ $M(\xi) = \frac{q_{\max} L}{6} \xi \left( 1 - \frac{\xi^2}{L^2} \right)$ $M_{\max} = \frac{\sqrt{3} q_{\max} L^2}{27}$ $\theta_A = \frac{7 q_{\max} L^3}{360 EJ} \quad \theta_B = -\frac{8 q_{\max} L^3}{360 EJ}$ $v\left(\frac{L}{2}\right) = \frac{5 q_{\max} L^4}{768 EJ}$ $v_{\max} = 0.00652 \frac{q_{\max} L^4}{EJ}$
	$V_A = \frac{Q}{L} \quad V_B = -\frac{Q}{L}$ $M_{C-} = Q\alpha \quad M_{C+} = Q\beta$ $\theta_C = \frac{QL}{3EJ} (1 - 3\alpha\beta) \quad \theta_A = \frac{QL}{6EJ} (3\beta^2 - 1) \quad \theta_B = \frac{QL}{6EJ} (3\alpha^2 - 1)$ $v_C = \frac{QL^2}{3EJ} \alpha\beta(\alpha - \beta)$ $v(\xi) = \begin{cases} \frac{QL^2}{6EJ} \frac{\xi}{L} \left( 1 - 3\beta - \frac{\xi^2}{L^2} \right) & 0 \leq \xi \leq a \\ \frac{QL^2}{6EJ} \frac{\xi'}{L} \left( 1 - 3\alpha - \frac{\xi'^2}{L^2} \right) & a \leq \xi \leq L \end{cases}$



	$V_A = P \quad M_A = -PL$ $\delta_B = \frac{PL^3}{3EJ} \quad \theta_B = \frac{PL^2}{2EJ}$ $v(\xi) = \frac{P}{6EJ} (2L^2 - 3(L-\xi)L^2 + (L-\xi)^3)$
	$V_A = 0 \quad M_A = Q$ $\delta_B = -\frac{QL^2}{2EJ} \quad \theta_B = -\frac{QL}{EJ}$ $v(\xi) = -\frac{Q}{2EJ} \xi^2$
	$V_A = qL \quad M_A = -\frac{qL^2}{2}$ $\delta_B = \frac{qL^4}{8EJ} \quad \theta_B = \frac{qL^3}{6EJ}$ $v(\xi) = \frac{qL^4}{24EJ} \left[ 3 - 4\frac{(L-\xi)}{L} + \frac{(L-\xi)^4}{L^4} \right]$
	$V_A = \frac{q_{\max}L}{2} \quad M_A = -\frac{q_{\max}L^2}{6}$ $\delta_B = \frac{q_{\max}L^4}{30EJ} \quad \theta_B = \frac{q_{\max}L^3}{24EJ}$ $v(\xi) = \frac{q_{\max}L^4}{120EJ} \left[ 4 - 5\frac{(L-\xi)}{L} + \frac{(L-\xi)^5}{L^5} \right]$



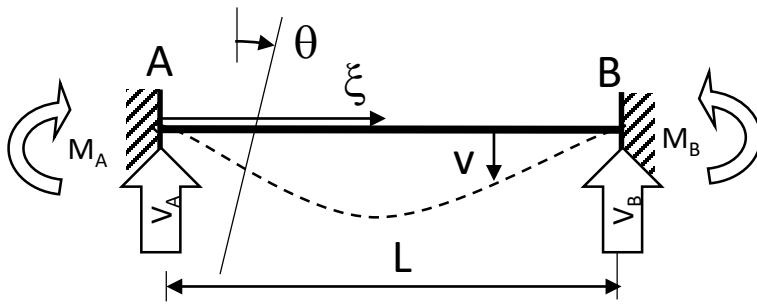
$$a + b = L$$

$$\alpha = \frac{a}{L}$$

$$\beta = \frac{b}{L}$$

$$\xi' = L - \xi$$

	$V_A = \frac{P}{2}(3\alpha - \alpha^3) \quad V_B = \frac{P}{2}(2 - 3\alpha + \alpha^3) \quad M_A = -\frac{PL}{2}(\alpha - \alpha^3)$ $M_{\max} = M_C = \frac{PL}{2}(2\alpha - 3\alpha^2 + \alpha^4)$
	$V_A = -\frac{3Q}{2L}(\beta^2 - 1) \quad V_B = \frac{3Q}{2L}(\beta^2 - 1) \quad M_A = \frac{Q}{2}(3\beta^2 - 1)$ $ M_{\max}  = \max( M_A , \left  \frac{Q}{2}[3\beta^3 + (3\alpha - 1)] \right , \left  Q - \frac{Q}{2}[3\beta^3 + (3\alpha - 1)] \right )$
	$V_A = \frac{5qL}{8} \quad V_B = \frac{3qL}{8} \quad M_A = -\frac{qL^2}{8}$ $M_{\max} = M_A \quad M(0.625L) = \frac{9qL^2}{158} \quad (\text{max. mom. positivo})$ $M(\xi) = \frac{qL^2}{8} \left( 3\frac{\xi}{L} - 4\frac{\xi^2}{L^2} \right)$ $v_{\max} = v(0.579L) = \frac{qL^4}{185EJ}$
	$V_A = \frac{4qL}{10} \quad V_B = \frac{qL}{10} \quad M_A = -\frac{qL^2}{15}$ $M_{\max} = M_A$ $M(\xi) = \frac{qL^2}{30} \left( 3\frac{\xi}{L} - 5\frac{\xi^2}{L^2} \right)$



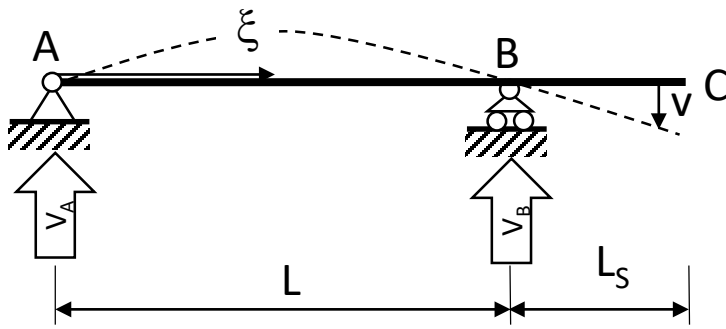
$$a + b = L$$

$$\alpha = \frac{a}{L}$$

$$\beta = \frac{b}{L}$$

$$\xi' = L - \xi$$

	$V_A = P\beta^2(1 + 2\alpha) \quad V_B = P\alpha^2(1 + 2\beta)$ $M_A = -PL\alpha\beta^2 \quad M_B = -PL\alpha^2\beta$ $M_C = 2PL\alpha^2\beta^2$
	$V_A = \frac{6Q}{L}\alpha\beta \quad V_B = -\frac{6Q}{L}\alpha\beta$ $M_A = -Q\beta(3\alpha - 1) \quad M_B = Q\alpha(3\beta - 1)$ $v_C = \frac{QL^2}{2}\alpha^2\beta^2(\alpha - \beta)$
	$V_A = V_B = \frac{qL}{2} \quad M_A = M_B = -\frac{qL^2}{12}$ $M\left(\frac{L}{2}\right) = \frac{qL^2}{24}$ $v_{\max} = v\left(\frac{L}{2}\right) = \frac{qL^4}{384EJ}$
	$V_A = \frac{3q_{\max}L}{20} \quad V_B = \frac{7q_{\max}L}{20}$ $M_A = -\frac{q_{\max}L^2}{30} \quad M_B = -\frac{q_{\max}L^2}{20}$ $M(0.548L) = \frac{q_{\max}L^2}{46.6} \quad (\text{max. momento positivo})$ $v_{\max} = v(0.525L) = \frac{q_{\max}L^4}{764EJ}$



	$V_A = \frac{PL_s}{L} \quad V_B = \frac{PL_s}{L}(L + L_s)$ $M_{\max} = M_B = -PL_s$ $v_C = \frac{P}{EJ} \frac{(L + L_s)L_s^2}{3}$ $v(0.577L) = -\frac{PL^2L_s}{9\sqrt{3}EJ} \quad (\text{freccia max. tratto AB})$
	$L_s \geq L$ $V_A = \frac{q}{2L}(L^2 - L_s^2) \quad V_B = \frac{q}{2L}(L + L_s)^2$ $M_{\max} = M_B = -\frac{qL_s^2}{2}$ $M(\xi) = -\frac{q}{2L}(L^2 - L_s^2)\xi - \frac{q\xi^2}{2}$
	$L_s \leq L$ $V_A = \frac{q}{2L}(L^2 - L_s^2) \quad V_B = \frac{q}{2L}(L + L_s)^2$ $x_0 = \frac{(L^2 - L_s^2)}{2L}$ $M_B = -\frac{qL_s^2}{2}$ $M(x_0) = \frac{q}{8} \frac{(L^2 - L_s^2)^2}{L^2} \quad (\text{max. mom. tratto AB})$