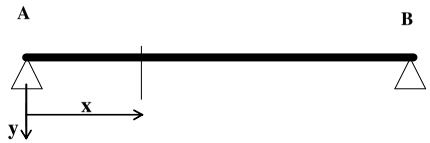
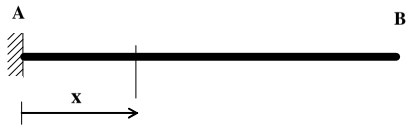
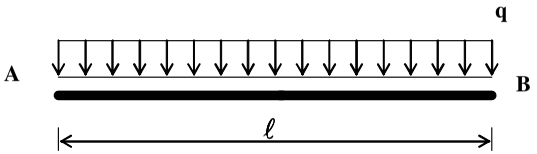
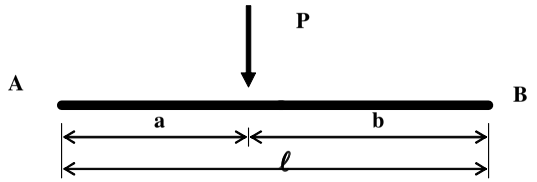
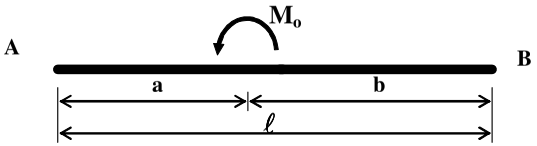
Deflexões (y) e Inclinações (y') em Vigas

Condições de contorno Caso de Carregamento		
	$y = \frac{qx}{24EJ}(\ell^3 - 2\ell x^2 + x^3)$ $y' = \frac{q}{24EJ}(\ell^3 - 6\ell x^2 + 4x^3)$ $y'_a = -y'_b = \frac{q\ell^3}{24EJ}$; $\delta_{max} = \frac{5q\ell^4}{384EJ}$	$y = \frac{qx^2}{24EJ}(6\ell^2 - 4\ell x + x^2)$ $y' = \frac{qx}{6EJ}(3\ell^2 - 3\ell x + x^2)$ $y'_b = \frac{q\ell^3}{6EJ}$; $y_b = \frac{q\ell^4}{8EJ}$
	$y = \frac{Pbx}{6\ell EJ}(\ell^2 - b^2 - x^2)$; para 0<x<a $y' = \frac{Pb}{6\ell EJ}(\ell^2 - b^2 - 3x^2)$; para 0<x<a $y'_a = \frac{Pab}{6\ell EJ}(\ell + b)$; $y'_b = \frac{-Pab}{6\ell EJ}(\ell + a)$ $y_{max} = \frac{Pb(\ell^2 - b^2)^{3/2}}{9\sqrt{3}\,\ell EJ}$ se a≥b	$y = \frac{Px^2}{6EJ}(3a - x)$; $y' = \frac{Px}{2EJ}(2a - x)$, para 0<x<a $y = \frac{Pa^2}{6EJ}(3x - a)$; $y' = \frac{Pa^2}{2EJ}$, para a<x<ℓ $y'_b = \frac{Pa^2}{2EJ}$; $y_b = \frac{Pa^2}{6EJ}(3\ell - a)$
	$y = \frac{M_o x}{6\ell EJ}(6a\ell - 3a^2 - 2\ell^2 - x^2)$ $y' = \frac{M_o}{6\ell EJ}(6a\ell - 3a^2 - 2\ell^2 - 3x^2)$; para 0<x<a	$y = \frac{-M_o x^2}{2EJ}$; $y' = \frac{-M_o x}{EJ}$; $y'_b = \frac{-M_0 \ell}{EJ}$; $y_b = \frac{-M_0 \ell^2}{2EJ}$ para 0<x<a