

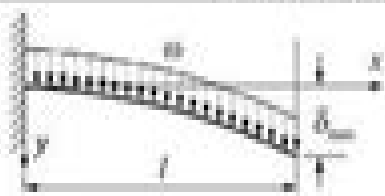

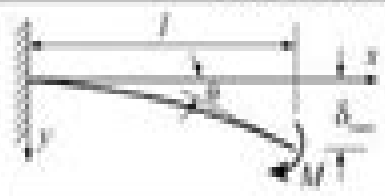


## BEAM DEFLECTION FORMULAE

BEAM TYPE	SLOPE AT FREE END	DEFLECTION AT ANY SECTION IN TERMS OF $x$	MAXIMUM DEFLECTION
1. Cantilever Beam - Concentrated load $P$ at the free end			
	$\theta = \frac{Pl^2}{2EI}$	$y = \frac{Px^2}{6EI}(3l-x)$	$\delta_{max} = \frac{Pl^3}{3EI}$
2. Cantilever Beam - Concentrated load $P$ at any point			
	$\theta = \frac{Pa^2}{2EI}$	$y = \frac{Px^2}{6EI}(3a-x) \text{ for } 0 < x < a$ $y = \frac{Pa^2}{6EI}(3x-a) \text{ for } a < x < l$	$\delta_{max} = \frac{Pa^2}{6EI}(3l-a)$
3. Cantilever Beam - Uniformly distributed load $w$ (N/m)			
	$\theta = \frac{w l^3}{6EI}$	$y = \frac{wx^2}{24EI}(x^2 + 6l^2 - 4lx)$	$\delta_{max} = \frac{wl^4}{8EI}$
4. Cantilever Beam - Uniformly varying load. Maximum intensity $w_0$ (N/m)			
	$\theta = \frac{w_0 l^3}{24EI}$	$y = \frac{w_0 x^2}{120EI}(10l^3 - 10l^2x + 5lx^2 - x^3)$	$\delta_{max} = \frac{w_0 l^4}{30EI}$
5. Cantilever Beam - Couple moment $M$ at the free end			
	$\theta = \frac{Ml}{EI}$	$y = \frac{Mx^2}{2EI}$	$\delta_{max} = \frac{Ml^2}{2EI}$

# Beam Analysis In Matlab

**SA Adler**



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