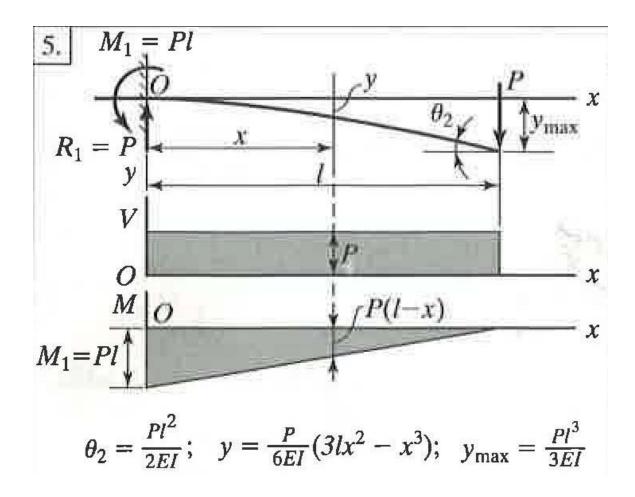
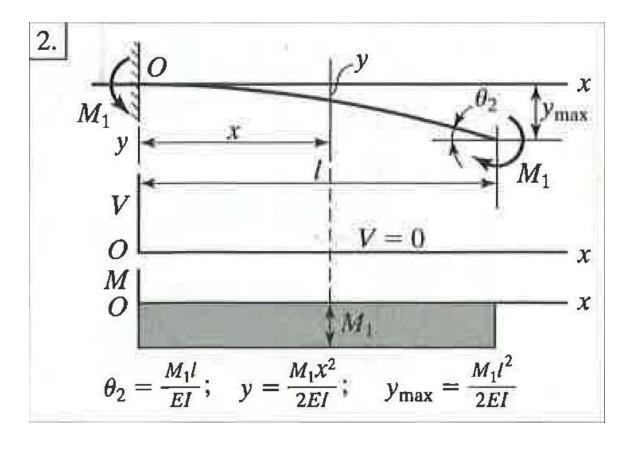
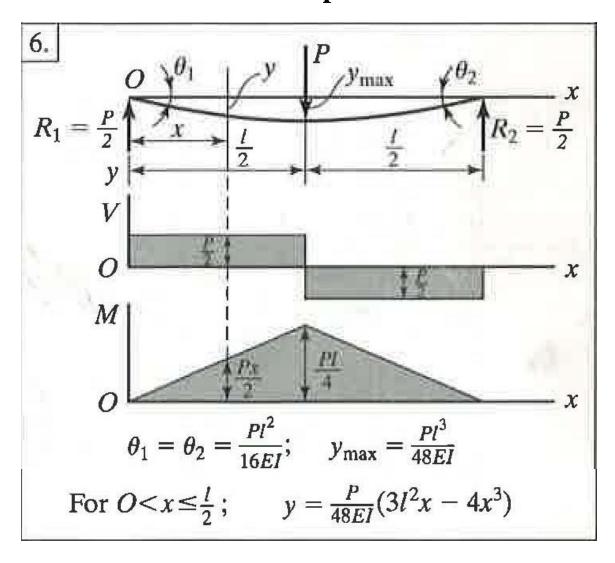
Cantilever Beam with a Point Load



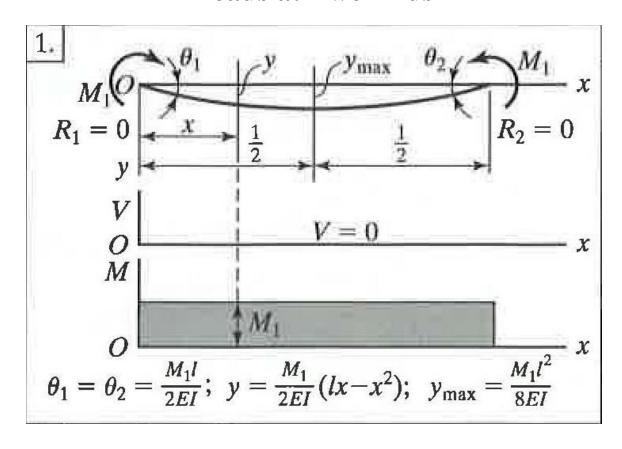
Cantilever Beam with a Moment Load



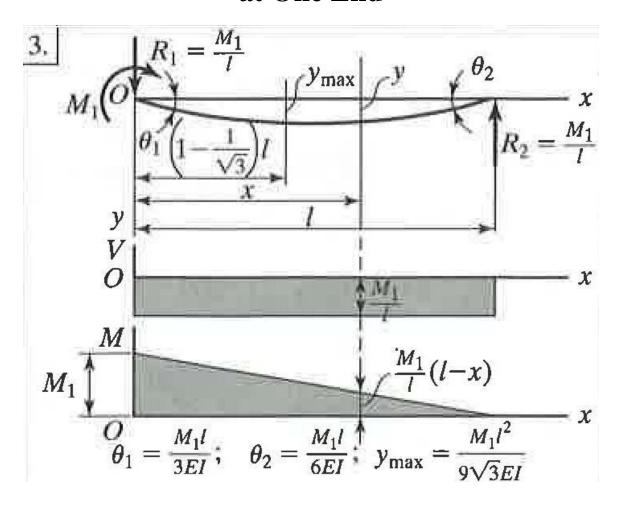
Simply-supported Beam with a Point Load at Mid-span



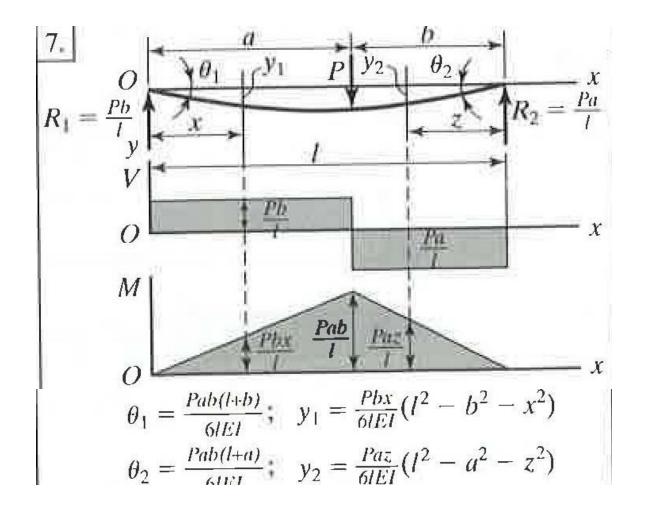
Simply-supported Beam with Equal Moment Loads at Two Ends



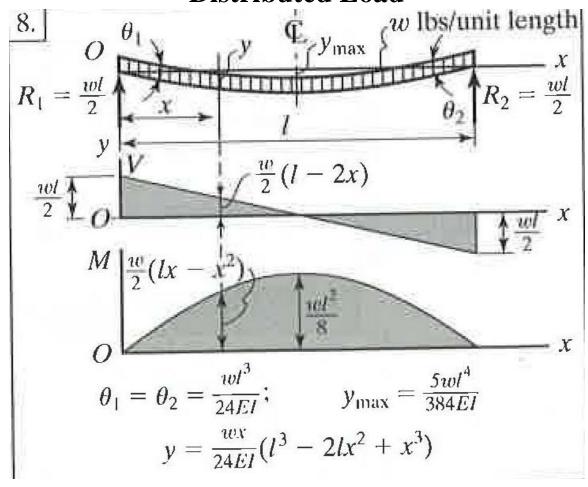
Simply-supported Beam with a Moment Load at One End



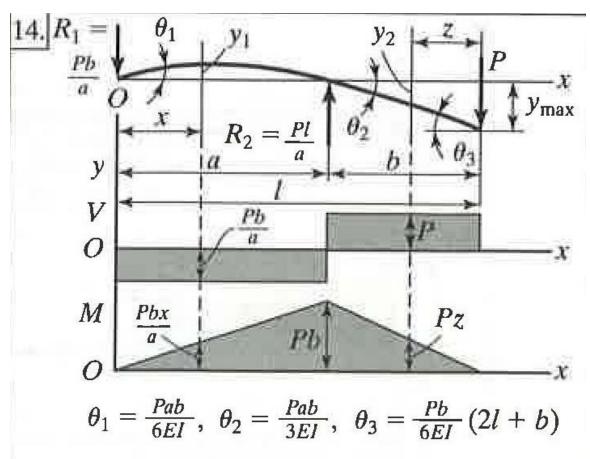
Simply-supported Beam with a Point Load



Simply-supported Beam with a Uniformly Distributed Load



Overhang Beam with a Point Load at One End



For
$$O < x \le a$$
; $y_1 = \frac{Pbx}{6aEI} (x^2 - a^2)$
For $O < z \le b$; $y_2 = \frac{P}{6EI} [z^3 - b(2l + b)z + 2b^2l]$
 $y_{\text{max}} = \frac{Pb^2l}{3EI}$