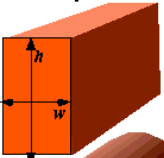
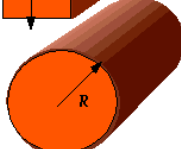
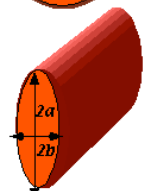
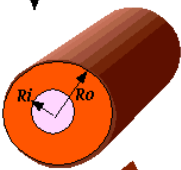
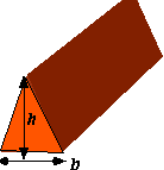


Second moment of area for some beam shapes

| Shape | Area | I |
|---|-----------------------|---------------------------|
|  | $w h$ | $w h^3 / 12$ |
|  | πR^2 | $\pi R^4 / 4$ |
|  | $\pi a b$ | $\pi a^3 b / 4$ |
|  | $\pi (R_o^2 - R_i^2)$ | $\pi (R_o^4 - R_i^4) / 4$ |
|  | $b h / 2$ | $b h^3 / 36$ |

see class web page

