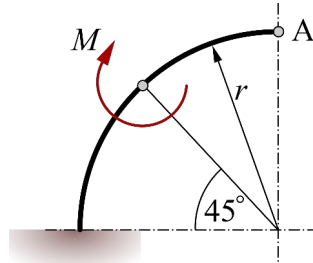


Strength of Mechanical Constructions Deformation of curved bars – examples

The curved bars shown below have the cross-section A , the second moment I and are made of material characterised by the Young modulus E . The radius r as well as the load M and F are known. For particular beam:

a) determine the vertical and horizontal displacement at point A



b) determine the slope (angle of rotation) at point A

