

Name:

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AM33: Work & Energy

3. The cantilever beam has a square cross section with a side length of a and a length of L . The beam is fixed at the left end and a force F is applied at the free end. The beam is made of a material with a Young's modulus E . The deflection of the beam at the free end is δ . The maximum stress in the beam is σ_{max} . The maximum strain in the beam is ϵ_{max} . The maximum displacement of the beam is δ_{max} . The maximum slope of the beam is θ_{max} . The maximum deflection of the beam is δ_{max} . The maximum slope of the beam is θ_{max} . The maximum deflection of the beam is δ_{max} .