

Cantilever Beam - Numerical Results

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[Problem Specification](#)

[1. Pre-Analysis & Start-Up](#)

[2. Geometry](#)

[3. Mesh](#)

[4. Physics Setup](#)

[5. Numerical Solution](#)

[6. Numerical Results](#)

[7. Verification & Validation](#)

[Exercises](#)

[Comments](#)

Plot Deformed Shape of Midline

Plot Bending Stress

Plot Bending Moment

Probe Displacement

Check Your Understanding

Select the correct option below.

Consider the case where we replace our square cross-section in ANSYS with an I-shaped cross-section that is taller, has a lower cross-sectional area and the same moment of inertia. If we then re-solve the problem in ANSYS, which of the following results would be affected? Select all options that apply.

1. Deformed shape of the midline, $u_y(x)$
2. Max. bending stress at root

[Go to Step 7: Verification & Validation](#)

[Go to all ANSYS Learning Modules](#)