

Homework 2: Tapered Elastic Beam

Solve the unknown *displacements* and *stresses* of the beam shown in the figure. Use

- (a) 2 equally sized elements with linear basis functions,
- (b) 3 equally sized elements with linear basis functions,
- (c) 1 element with quadratic basis function.

Plot the displacement fields into a single figure and comment the results.

