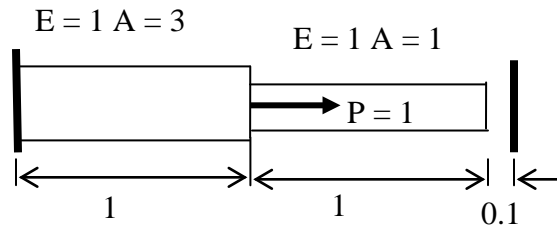


Make-up for Test 1

Additional points: $0.3 \cdot (100 - \text{Score})$

FINITE ELEMENT ANALYSIS

1. Determine the displacement at the force, stresses in the members and reactions. Use finite element formulations and elimination (strike off) approach to treat the boundary conditions.



2. Find K_{11} , K_{12} , K_{22} of the global stiffness matrix \mathbf{K} for the two bar truss use connectivity as 1-2 for element 1 and 1-3 for element 2 and find Q_1 and Q_2 and stress in the elements

