



For the plane truss shown above,

 $P = 1000 \text{ kN}, \quad L = 1m, \quad E = 210 \, GPa,$ $A = 6.0 \times 10^{-4} \, m^2 \quad \text{for elements 1 and 2,}$ $A = 6\sqrt{2} \times 10^{-4} \, m^2 \quad \text{for element 3.}$

Determine the displacements and reaction forces.

 $L^{(1)} = 10$ $E^{(1)}A^{(1)} = 100$