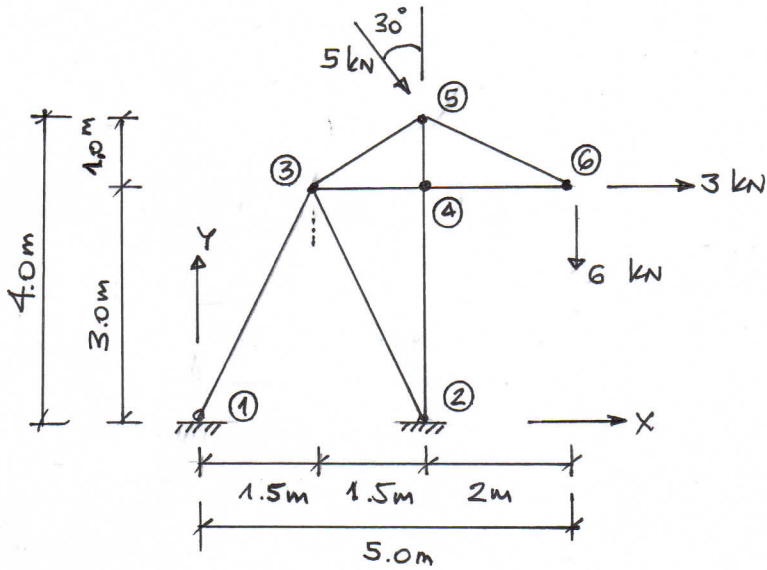


FINITE ELEMENT METHOD

HOME WORK 1

Determine the displacements, strains and stresses for the truss system composed of steel and aluminum alloy shown in Figure. The modulus of elasticity of steel and aluminum alloy are 2×10^8 kN/m² and 0.73×10^8 kN/m² respectively.

All horizontal members are made of 2cm diameter steel rods, and all remaining members of 1.5cm diameter aluminum rods. Loads are given in Figure.



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