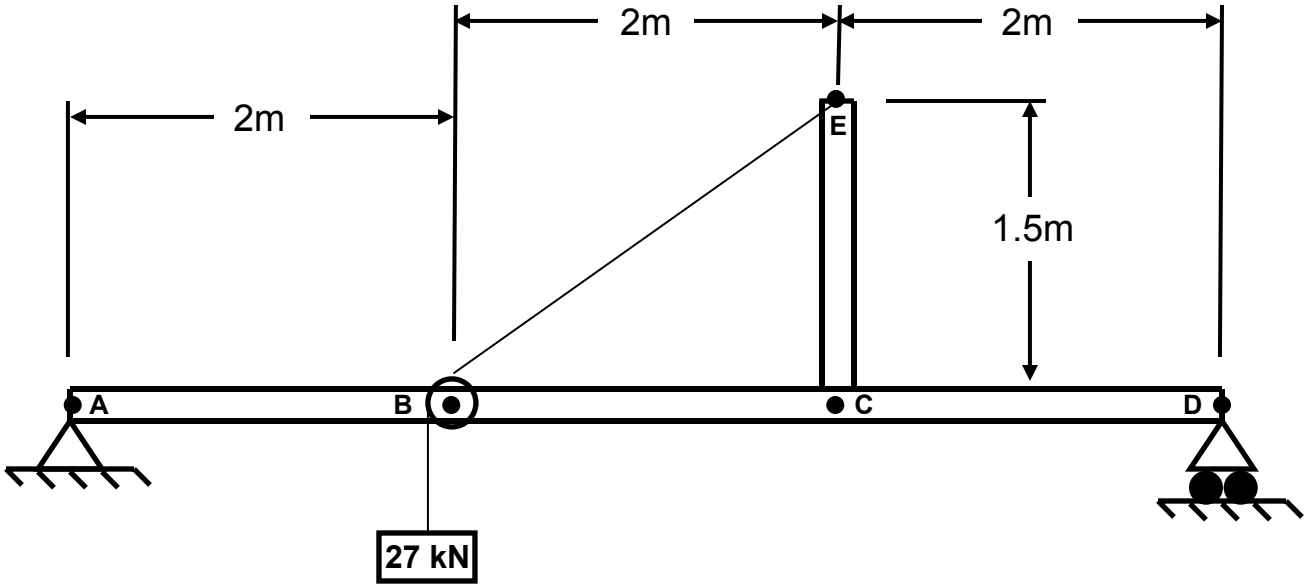


**Problem 2: The beam ABCD is loaded by a force W=27kN by the arrangement shown in the figure. The cable passes over a small frictionless pulley at "B" and is attached at "E" to the vertical arm. Determine expressions for the axial force N, shear force V, and the bending moment M along the length of the beam. Draw the normal, shear, and bending moment diagrams.**