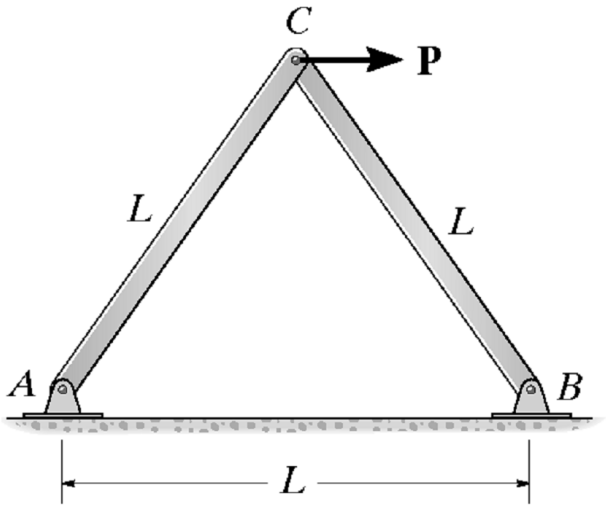
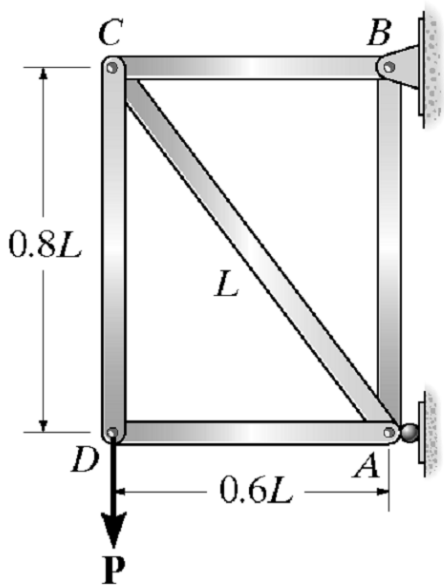
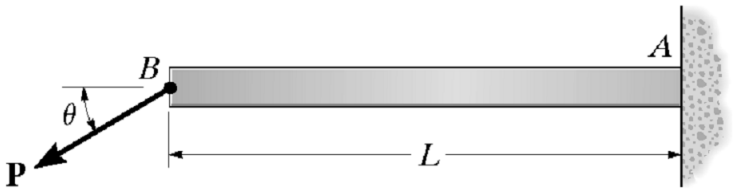
1. Determine the horizontal displacement of joint *C*. *EA* is constant.



2. Determine the vertical displacement of joint *D*. *EA* is constant.



3. The cantilevered beam has a rectangular cross sectional area *A*, a moment of inertial *I*, and a modulus of elasticity *E*. If a load *P* acts at point *B* as shown, determine the displacement at *B* in the direction of *P*, accounting for bending and axial force.



4. The steel bars are pin connected at *B* and *C*. If they each have a diameter of 30 mm, determine the slope at *E*. E_{st} = 200 GPa.