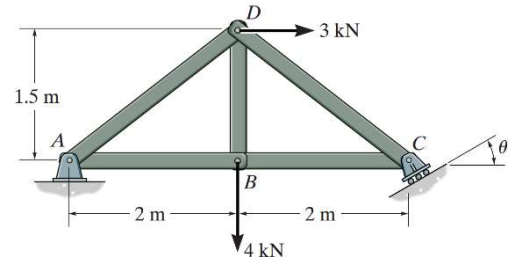# Truss analysis + Geometric properties

Problem 1:

Determine the force in each member of the truss, and state if the members are in tension or compression set $\theta=30°$. (Figure.2).
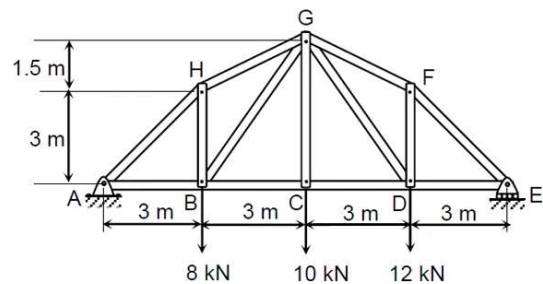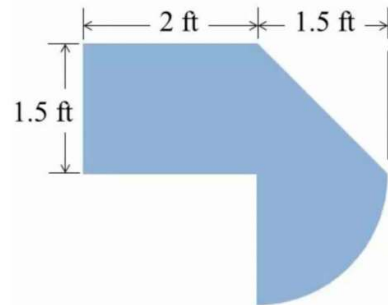
- Use the method of joints.

Problem 2:

For the truss in Figure 3, calculate the force in members GH, BC and BH and sate if these elements are in compression or in tension.

- Use the method of sections.

Problem 3:

Determine the centroid of the composite shape in Figure 4

Problem 4:

Calculate the centroid, and the moment area of inertia about the x axis of the shape in Figure 5. R= 1 in