

ASSIGNMENT (CHAPTER 5)

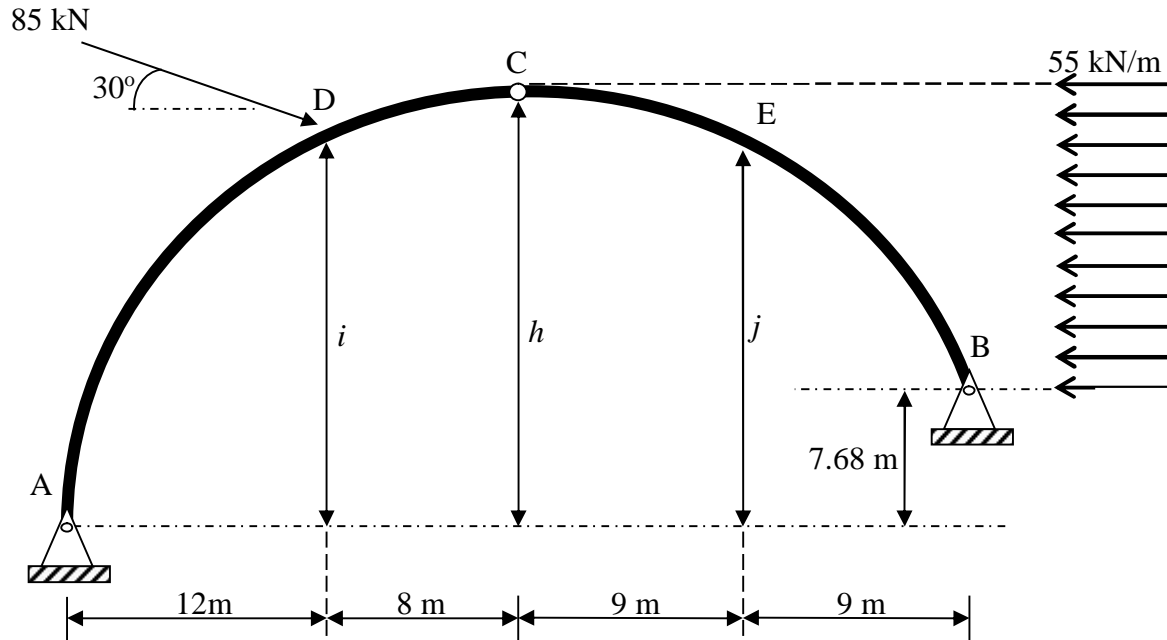


Figure 5

A three-hinged arch, ABC shown in **Figure 5**, carries a horizontal uniformly distributed load (UDL) of 55 kN/m between C and B and an inclined point load of 120 kN at point D.

- Find the dimension of h , i and j .
- Determine the reactions at supports A and B.
- Determine the internal forces (shear, normal and moment forces) at point E.