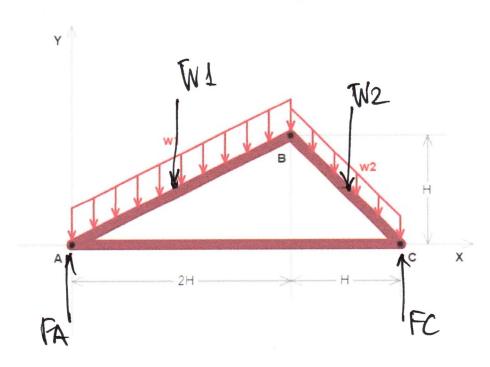
SOLUTION

ip4STATICS Worksheet for U04_P09

A rigid frame that supports a section of roof carries snow loading as shown below. w1 and w2 are equivalent weights per unit length along the frame segments.

Instance variables: loads w1 and w2 in N/m, length H in m.



Geometry LAB= VH2+4H2 = HJ5 LBC= VH2+H2 = HJ2

- (1) What is force FA at A? (mag,deg)
- (2) What is force FC at C? (mag,deg)