

Homework Problem H3.A

Given: Tension forces \vec{F}_{AB} , \vec{F}_{AC} and \vec{F}_{AD} act on mast AO at point A. The tension in cable AB is known to be T .

Find:

- Determine the projection of \vec{F}_{AB} on the direction of cable AD. Write your answer as a vector in terms of T .
- Determine the angle between cables AB and AC.
- Determine the angle between cables AD and AC.

