

The tension in cable $B C$ is of magnitude $F=400 \mathrm{~N}$.
a) Derive the unit vector for $F$
b) Express F as a Cartesian vector

Example 2.

c) Find the component of $F$ parallel to $A B$
d) Perpendicular to $A B$
e) Find the angle between $A B$ and $F$


Find: The angle between the force vector and the pole, and the magnitude of the projection of the force along the pole OA.

GROUP PROBLEM SOLVING Given: The force acting on the pole.


Find: The angle between the force vector and the pole, and the magnitude of the projection of the force along the pole AO.

