

- The turnbuckle, shown in fig. is tightened until the tension in the cable T_{AB} equals 300 N.
- Express the position of point A and point B as vectors using Cartesian components.
 - Express the vector $\overrightarrow{AB}$ using Cartesian components.
 - Express the unit vector $\tilde{\lambda}_{AB}$ using Cartesian components.
 - What is the angle that vector from $\overrightarrow{AB}$ makes with z-axis?
 - The force exerted by the cable on bar AD points from A to B . What is the scalar component of this force in the direction of line from OB ?

