

- The turnbuckle, shown in fig. is tightened until the tension in the cable T_{AB} equals 300 N.
- (A) Express the position of point A and point B as vectors using Cartesian components.
- (B) Express the vector \overrightarrow{AB} using Cartesian components.
- (C) Express the unit vector $\vec{\lambda}_{AB}$ using Cartesian components.
- (D) What is the angle that vector from \overrightarrow{AB} makes with z -axis?
- (E) 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 ?

