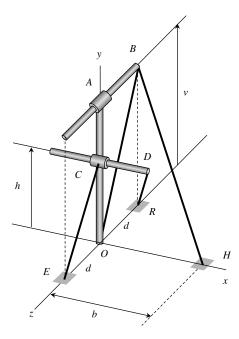
Homework Problem 2.B

Given: Tension forces \vec{F}_{BO} and \vec{F}_{BH} act on a three-dimensional frame at point B.

Find:

- a) Determine the unit vector and force vector for \vec{F}_{RO} .
- b) Determine the unit vector and force vector for \$\vec{F}_{BH}\$.
 c) Calculate the direction angles and direction
- c) Calculate the direction angles and direction cosines for \vec{F}_{BH} .



Use the following parameter values in your analysis: $F_{BO} = 100$ lb, $F_{BH} = 150$ lb, b = 3 ft, d = 2 ft, v = 5 ft and h = 4 ft.