# Rose-Hulman Institute of Technology 

Department of Mechanical Engineering
ES 204

## Example Problem - Le 03

12.39 Two wires AC and BC are tied at C to a sphere which revolves at a constant speed $v$ in the horizontal circle shown. Determine the range of the allowable values of $v$ if the tension in either of the wires is not to exceed 40 N .
(taken from Vector Mechanics for Engineers, 5th Edition by Beer \& Johnston)


