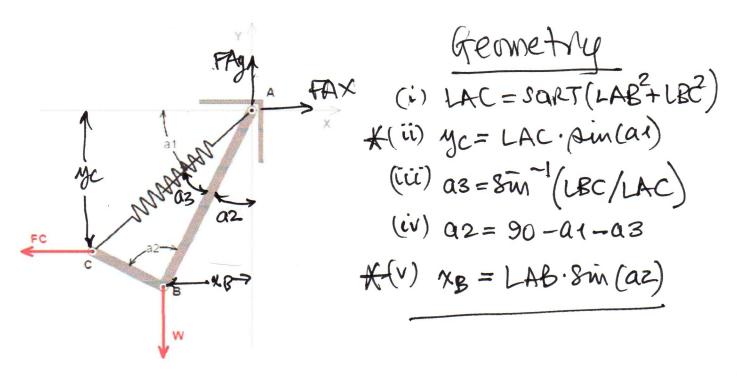
ip4STATICS Worksheet for U04_P05

A flexible spring-loaded frame has pin joints at A, B and C. Angle ABC is fixed at 90°. LAB is the length of link AB; LBC is the length of link BC. At equilibrium force FC acting horizontally supports weight W at angle a1.

Instance variables: force W in lbs; lengths LAB and LBC in ft; angle a1 in deg.



- (1) What is the force FC? (Enter 'lb,deg')
- (2) What is the reaction force FA at A? (Enter 'lb,deg')