

Homework Problem 10.B

Given: An L-shaped member is supported by a ball-and-socket joint at O , along with cables AD , BD and BC , as shown in the figure. A downward vertical load P acts midway between A and B on the member. Assume the weight of the member to be negligible compared to the applied load.

Find: Determine the tensions in the three cables acting on the member. Express your answers in terms of P .

