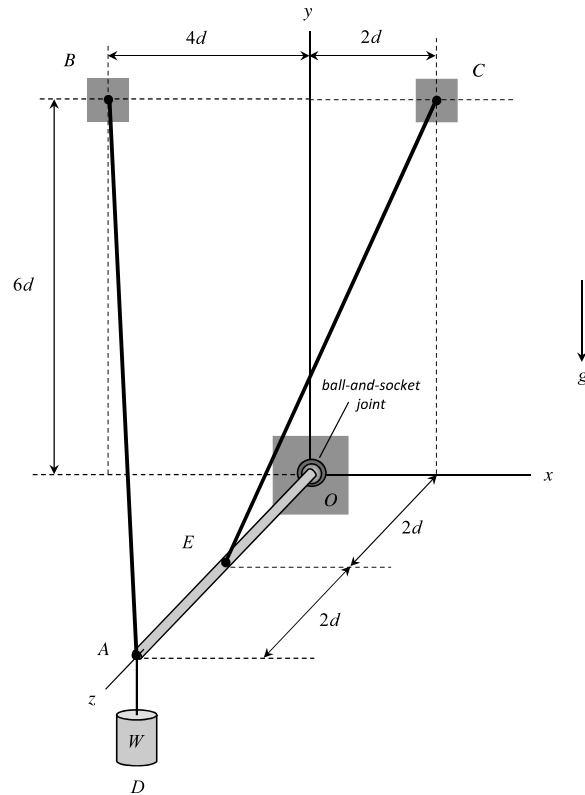


**Homework Problem 10.A**

**Given:** Rigid member AO is supported at O with a ball-and-socket joint, and by cables AB and AC at end A. This structure in turns supports block D having a weight of  $W$ . Assume the weight of the member to be negligible compared to the applied load.

**Find:** Determine the tensions in cables AB and AC. Express your answers in terms of  $W$ .



**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  $P$ .

