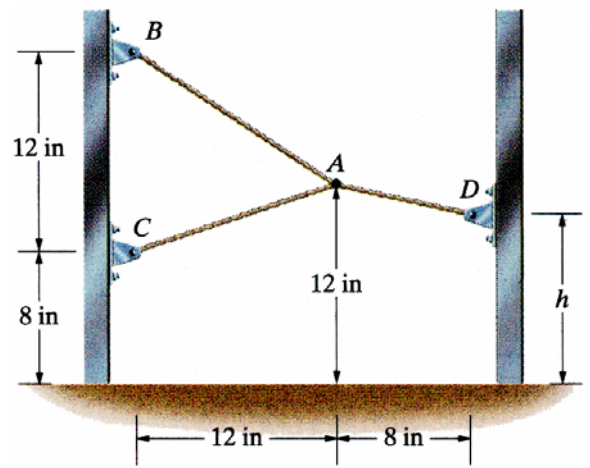
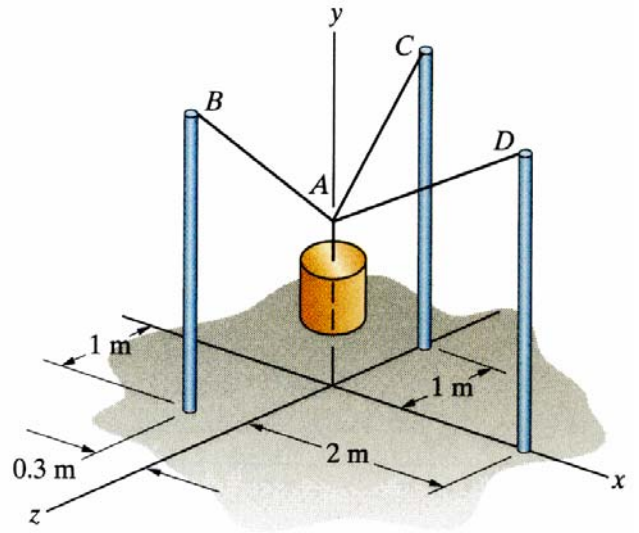


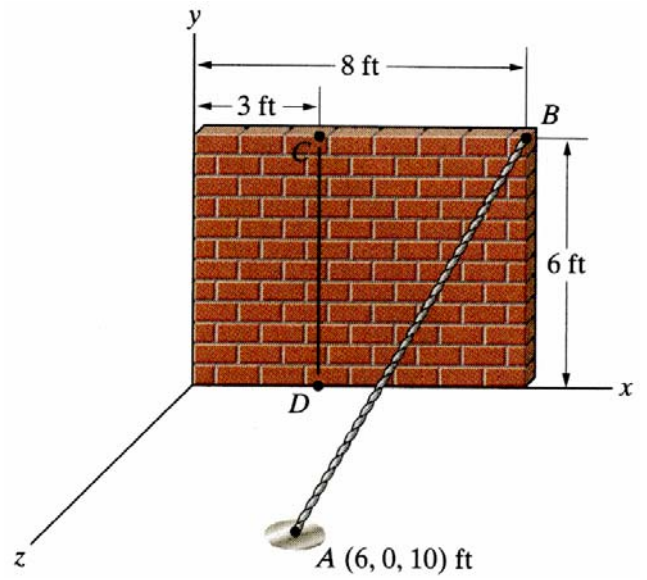
1. The distance  $h = 9$  in, and the tension in cable  $AD$  is 200 lb. What are the tensions in cables  $AB$  and  $AC$ ?



2. The 20-kg mass is suspended by cables attached to three vertical 2-m posts. Point A is at  $(0, 1.2, 0)$  m. Determine the tensions in cables  $AB$ ,  $AC$ , and  $AD$ .



3. The tension in cable  $AB$  is 80 lb. What is the moment about the line  $CD$  due to the force exerted by the cable on the wall at  $B$ ? Express the answer as a Cartesian vector.



4. Replace the distributed loading by an equivalent resultant force and specify its location, measured from point A.

