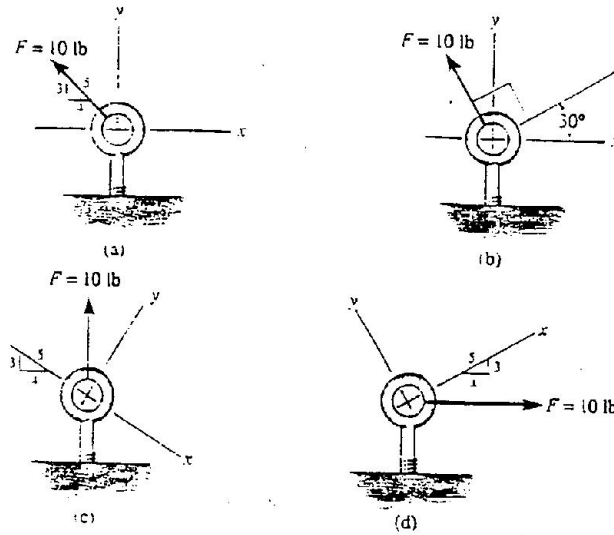
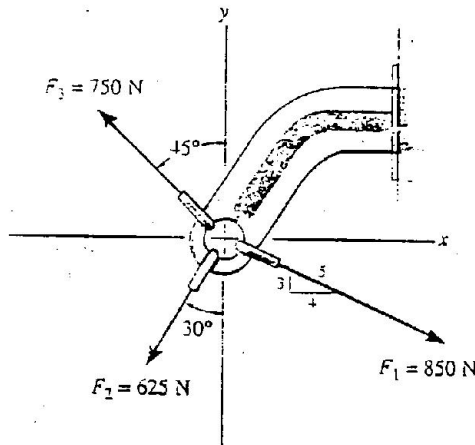


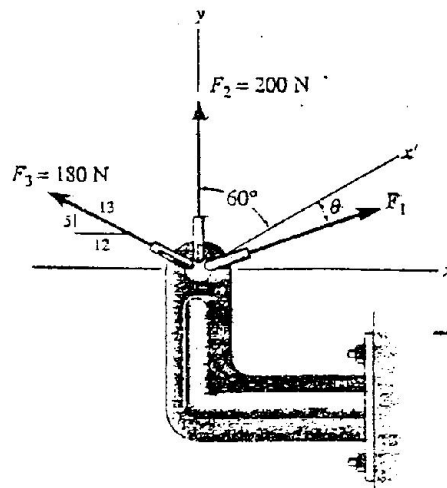
*2-32. In each case resolve the force into x and y components. Report the results using Cartesian vector notation.



*2-36. Determine the magnitude of the resultant force and its direction measured counterclockwise from the positive x axis.

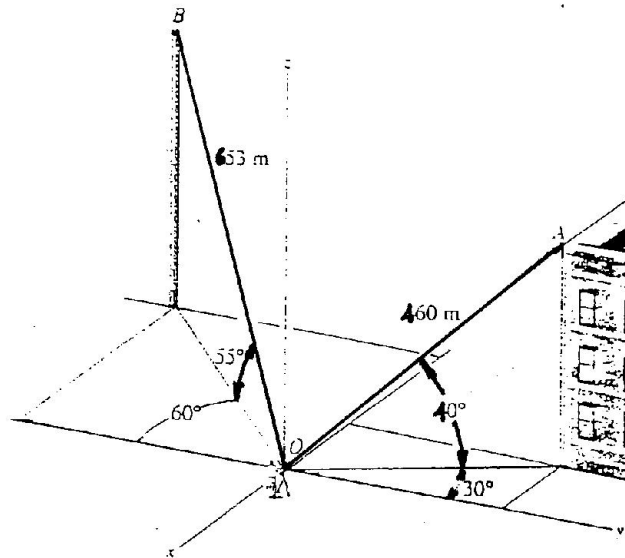


*2-56. Three forces act on the bracket. Determine the magnitude and direction θ of F_1 so that the resultant force is directed along the positive x' axis and has a magnitude of 800 N.

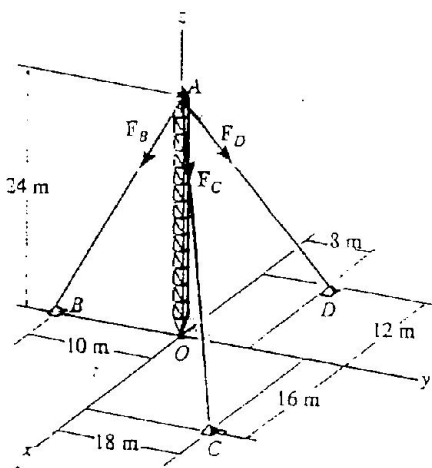


CIVE 210 HOMEWORK II 2/2

*2-88. The positions of point A on the building and point B on the antenna have been measured relative to the electronic distance meter (EDM) at O . Determine the distance between A and B . *Hint:* Formulate a position vector directed from A to B ; then determine its magnitude.



*2-100. The antenna tower is supported by three cables. If the forces in these cables are $F_B = 520$ N, $F_C = 680$ N, and $F_D = 560$ N, determine the magnitude and direction of the resultant force acting at A .



Prob. 2-100

*2-108. The chandelier is supported by three chains which are concurrent at point O . If the resultant force at O has a magnitude of 130 lb and is directed along the negative z axis, determine the force in each chain assuming $F_A = F_B = F_C$.

