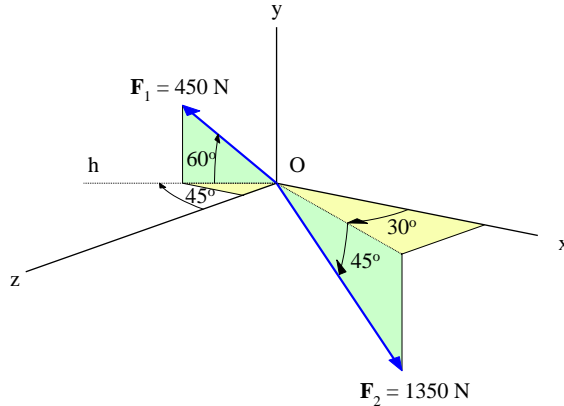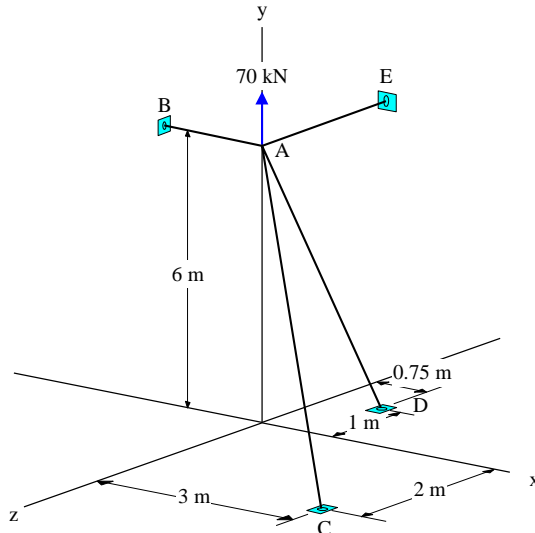NAME:_____Student #_____ GROUP:_____
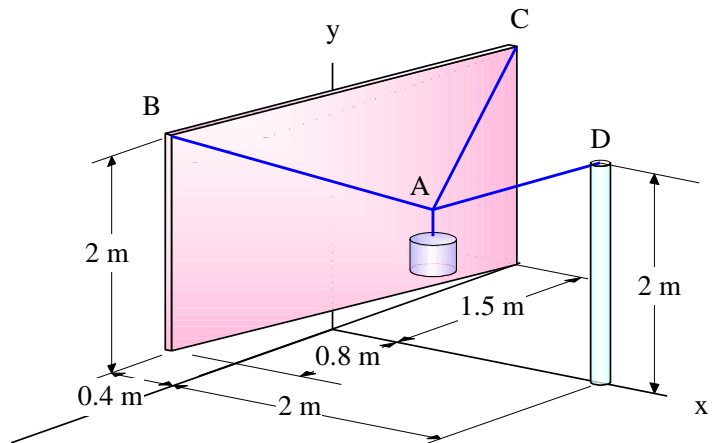
ENG 1440   Assignment #9

1. Determine the resultant of the two forces shown. Line Oh lies in the xz-plane.	
2. Four cables are connected at A, where an upward force of 70 kN is applied. Determine the tension in each cable if the tension in cable AB is 20 kN.	
3. Cables attached to one vertical 2-m post and a 2-m height wall suspended the 100 kg mass. Point A is at (1, 1.2, 0) m. Determine the tensions in cables AB, AC, and AD.	

Bonus

Find the magnitude and direction of the resultant, **R** of the two forces shown knowing,

$P = 6000$ N and $Q = 7500$ N.

All dimensions are in metres.