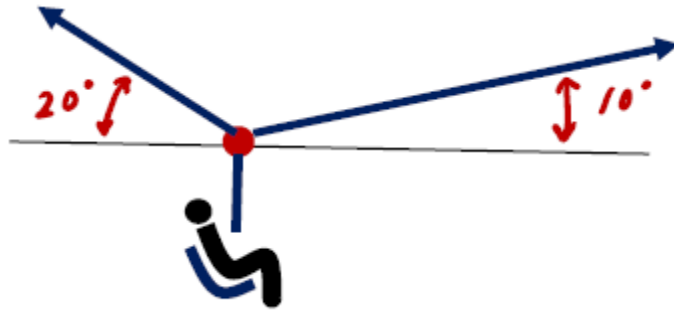


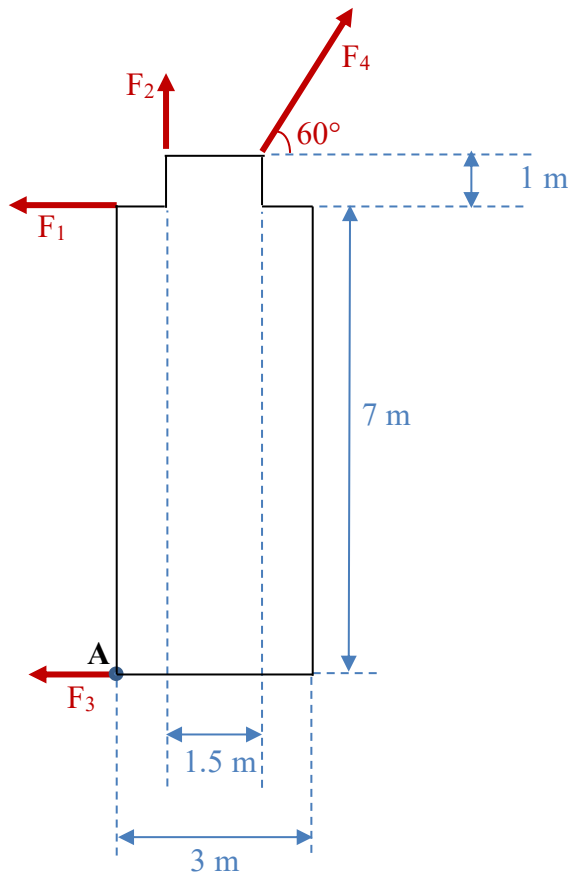
Homework 4

Due 22 April 2020

1. A chair lift loaded with three passengers weights 600 lbs. Determine the forces in your cable to the left and right of the lift.



2. Find the moments about point A:
- Find the moment of $F_1 = 60\text{ N}$ about A
 - Find the moment of $F_2 = 40\text{ N}$ about A
 - Find the moment of $F_3 = 50\text{ N}$ about A
 - Find the moment of $F_4 = 100\text{ N}$ about A



3. For the wrench shown below, the distance r is 20 cm and the angle $\phi = 50^\circ$. What is the moment induced by the 20 kN force about the pivot point?

