Assignment Worksheet 6/16/22 - 4:00:35 PM MDT

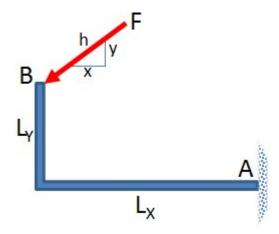
Online Homework System

Name:	
Class #:	

Instructor: Parker Schnepf

Class:
Section #:
Assignment: 4.1 Homework Exercises

Question 1: (10 points)

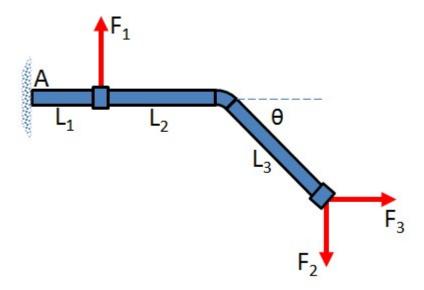


Find the moment of the force about point **A**. Neglect the thickness of the beam. Given forces and dimensions are:

 $F = 175 \text{ lbs}, L_X = 7 \text{ ft}, L_y = 3 \text{ ft}, x,y,h = 12,5,13, respectively.}$ (ans: $M_A = 956 \text{ lb·ft}$)

Select problem completion status from drop-down list:

Question 2: (10 points)



A bent pipe is anchored at point $\bf A$ and supports 3 forces: $\bf F_1$, $\bf F_2$, and $\bf F_3$. Neglecting the thickness of the pipe, find the resultant moment produced by the forces about point $\bf A$, given:

$$F_1 = 500 \ lbs$$
, $F_2 = 125 \ lbs$, $F_3 = 275 \ lbs$, $L_1 = 2 \ ft$, $L_2 = 2 \ ft$, $L_3 = 4 \ ft$, $\theta = 35^\circ$ (ans: $M_A = 721 \ lb \cdot ft$)

Select problem completion status from drop-down list: