Assignment Worksheet 6/16/22 - 3:58:08 PM MDT

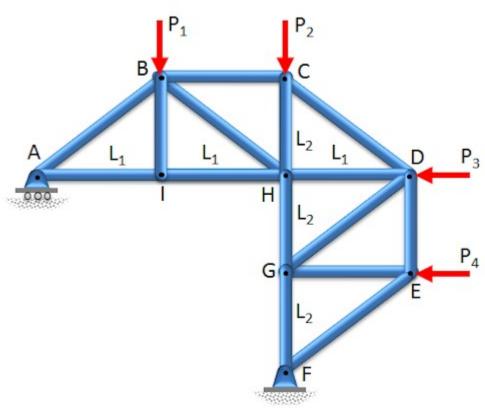
Online Homework System

Name:	
Class #:	

Instructor: Parker Schnepf

Class:
Section #:
Assignment: 7.2 Homework Exercises

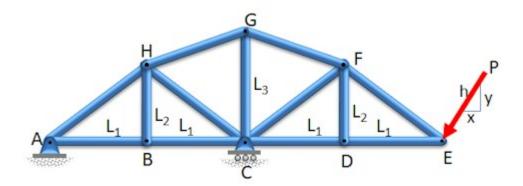
Question 1: (10 points)



Find the force in member CD, DH, and GH of the truss and state if the members are in Tension or Compression, given: $P_1 = 100 \ lbs$, $P_2 = 150 \ lbs$, $P_3 = 125 \ lbs$, $P_4 = 200 \ lbs$, $L_1 = 4 \ ft$, $L_2 = 3 \ ft$ (ans: CD = 563 lbs C, DH = 450 lbs T, GH = 306 lbs T)

Select problem completion status from drop-down list:

Question 2: (10 points)

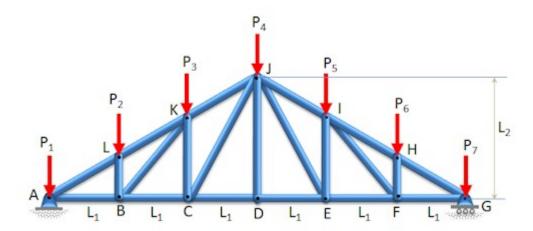


Find the force in member **BC**, **CH**, and **GH** of the truss and state if the members are in Tension or Compression, given:

P = 550 kN, L_1 = 5 m, L_2 = 4 m, L_3 = 6 m, x,y,h = 3,4,5, respectively (ans: **BC** = 880 kN C, **CH** = 235 kN C, **GH** = 790 kN T)

Select problem completion status from drop-down list:

Question 3: (10 points)



Find the force in members **DE**, **EJ**, and **IJ** of the truss and state if the members are in Tension or Compression, given: $P_1 = 170 \text{ lbs}$, $P_2 = 190 \text{ lbs}$, $P_3 = 165 \text{ lbs}$, $P_4 = 155 \text{ lbs}$, $P_5 = 170 \text{ lbs}$, $P_6 = 155 \text{ lbs}$, $P_7 = 155 \text{ lbs}$, $P_1 = 155 \text{ lbs}$, $P_2 = 155 \text{ lbs}$, $P_3 = 165 \text{ lbs}$, $P_4 = 155 \text{ lbs}$, $P_5 = 170 \text{ lbs}$, $P_6 = 155 \text{ lbs}$, $P_7 = 155$

(ans: $F_{DE} = 444$. lbs T, $F_{EJ} = 289$ lbs T, $F_{IJ} = 678$ lbs C)

Select problem completion status from drop-down list: