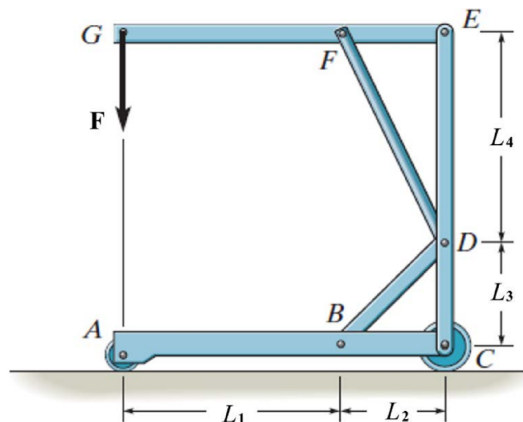


For the frame shown below.



Let

$$F = 5 \text{ kN}$$

$$L_1 = 4.5 \text{ m}, L_2 = 2 \text{ m}, L_3 = 1.6 \text{ m},$$

$$\text{and } L_4 = 2.25 \text{ m}$$

- Determine the internal forces of members FD and BD and indicated whether they are in tension or in compression.
- Determine the horizontal and vertical components of reactions at pin C .

Instructions: Two submissions are required.

- At the end of the tutorial session, you will hand out a paper copy of your solution to the Teaching Assistant. Make sure that you have a second copy of your solution, so you can complete the final draft. Do not forget to write your names and student numbers in your submission. A student who is absent from the tutorial will not receive any credit for it. A student can join the session remotely (e.g., zoom, WhatsApp, etc.), but you as a team must arrange the communication and let the Teaching Assistant know that a student is working remotely with the team.
- Before the beginning of the next tutorial, this could be anytime during the week, upload a pdf file of your complete solution. Make sure you show all the steps necessary to solve this problem. Upload the pdf file under **Tutorial 7**. Include your names and student numbers. Only one submission per team.