

King Fahd University of Petroleum & Minerals  
**CIVIL ENGINEERING DEPARTMENT**

**CE 201 STATICS (Section 8)**  
 Second Semester 1424-25 / 2004 (032)

**H.W. # 9**

**Due** on Sunday 28-2-1425 / 18-4-2004 (any time)

**Deadline** for submission: Monday 29-2-1425 / 19-4-2004 (**before you sit in class**)

In the *first three problems*, use the method of sections.

- 1- In the truss shown in Fig. P1 below, determine the forces in members DF and CE [Sec. 6.4] (15 pts.)
- 2- In the truss shown in Fig. P2 below, determine the forces in members JH and IG. [Sec. 6.4] (20 pts.)
- 3- In the truss shown in Fig. P3 below, determine the force in member IK [Sec. 6.4] (15 pts.)
- 4- Determine the components of the forces acting on *each member* of the frame shown in Fig. P4 below. [Sec. 6.6] (30 pts.)
- 5- Solve problem 6-129 (p. 318) in the textbook, but let the 100-kg crate be 200 kg. [Sec. 6.3] (20 pts.)

**You have to do all problems by yourself only.** *Of course you can seek my help anytime in the homework and in anything else.*

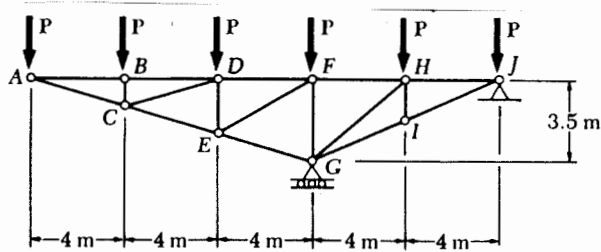


Fig. P1

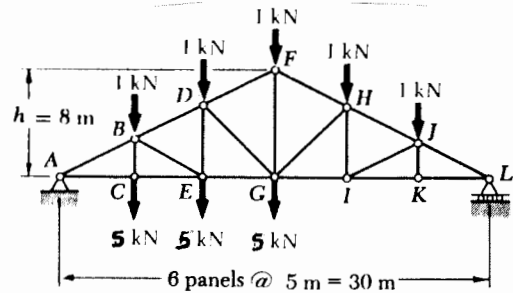


Fig. P2

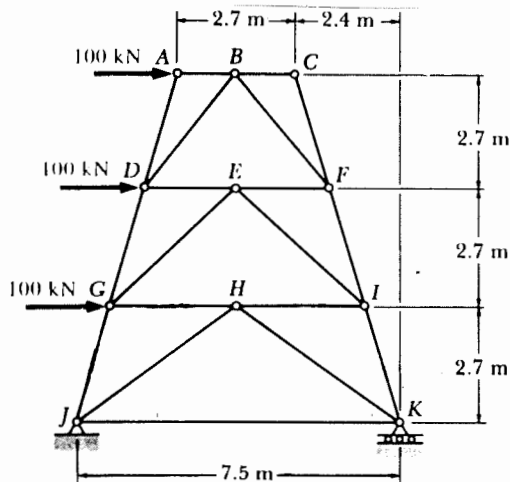


Fig. P3

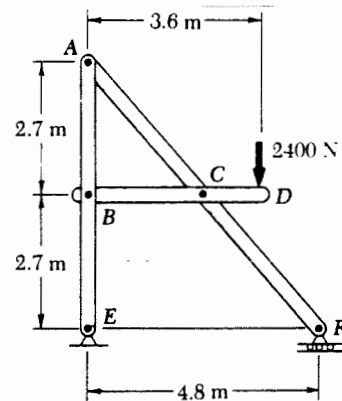


Fig. P4

Review the guidelines for submitting homework assignments given to you in class BEFORE you start solving and writing the homework. **DO NOT SUBMIT THE HOMEWORK IF YOU DO NOT FOLLOW THESE GUIDELINES. Cheating, copying, etc. is .....**!!!!!!