King Fahd University of Petroleum & Minerals
CIVIL ENGINEERING DEPARTMENT

CE 201 STATICS (Sections 4 & 5)

First Semester 1428-29 / 2007-08 (**071**)

H.W. # 8

Due on Wednesday 11-11-1428 / 21-11-2007 **(any time)**

Deadline for submission: **Saturday 14-11-1428 / 24-11-2007 (before you sit in class)**

1- Use the method of joints to determine the force in each member of the truss shown in Fig. P1. State whether each member is in tension or compression. [Secs. 6.1 , 6.2] (25 pts.)

2- Rework problem 1 above, but for the truss shown in Fig. P2. [Secs. 6.1 , 6.2] (25 pts.)

3- By inspection, determine all zero-force members in the trusses shown in Fig. P3 a & b for the given loading. [Sec. 6.3] (15 pts.)

4- Use the method of sections to determine the force in members *DF*, *DE*, and *CE* of the stadium truss shown in Fig. P4. [Sec. 6.4] (20 pts.)

5- Using the method of sections, determine the force in member *GJ* of the truss shown in Fig. P5. [Sec. 6.4] (15 pts.)

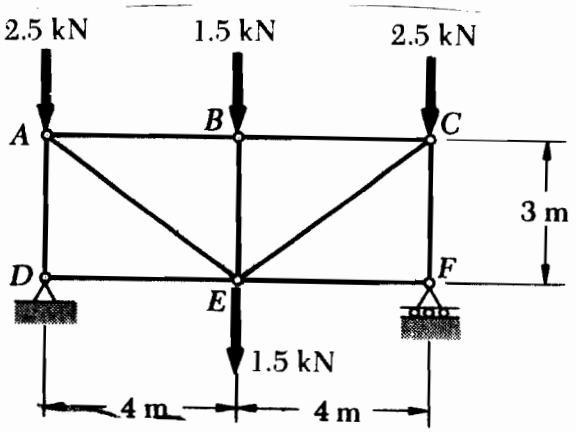


Fig. P1

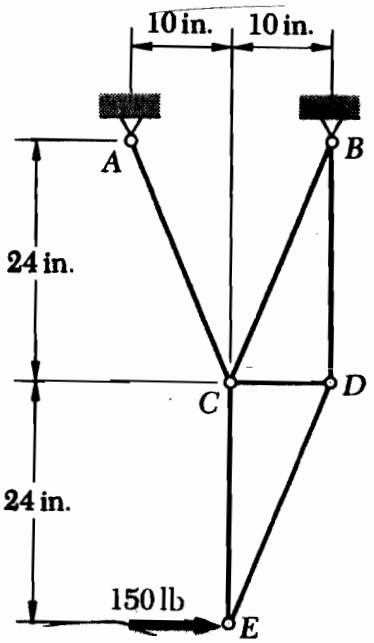
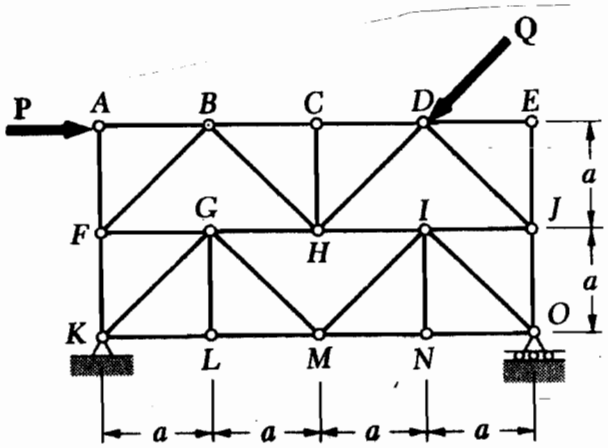


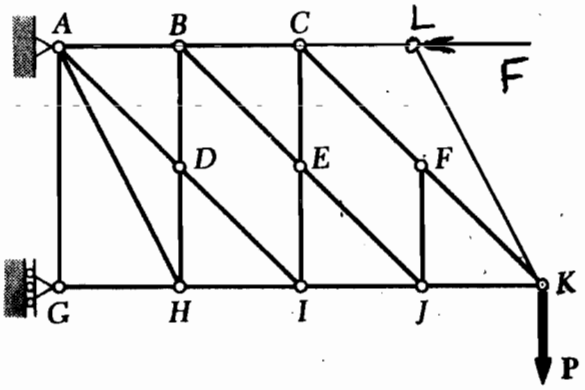
Fig. P2

Do your work *yourself*!! Remember that the homework carries 20% of the course grade; in addition, *solving it is the best way to understand the subject.* *Of course, you can seek my help anytime in the homework as well as in anything else.*

As an engineer*, 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 *ALL* THESE GUIDELINES. *Cheating, copying, etc. is ……!!!!!!



(a)



(b)

Fig. P3

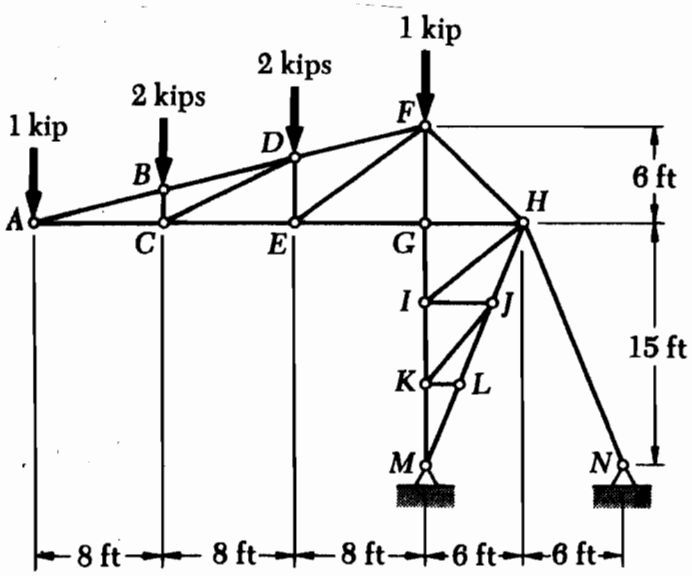


Fig. P4

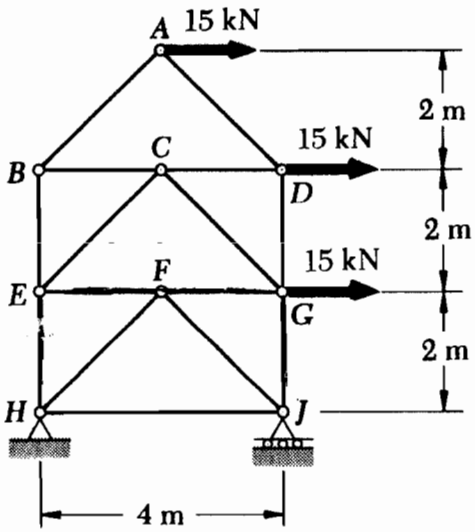


Fig. P5