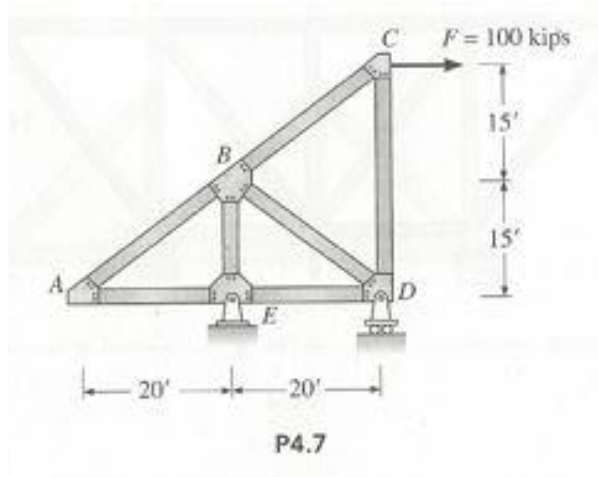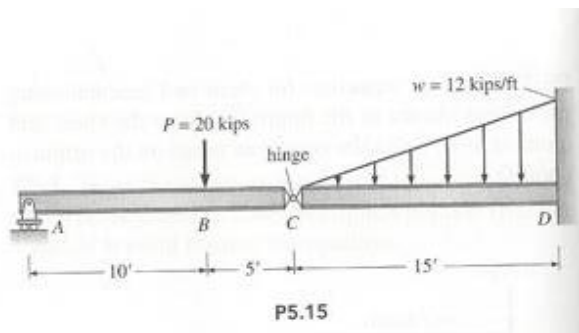# HOMEWORK 2 (10 pts)

Due Tuesday, September 20, 2016

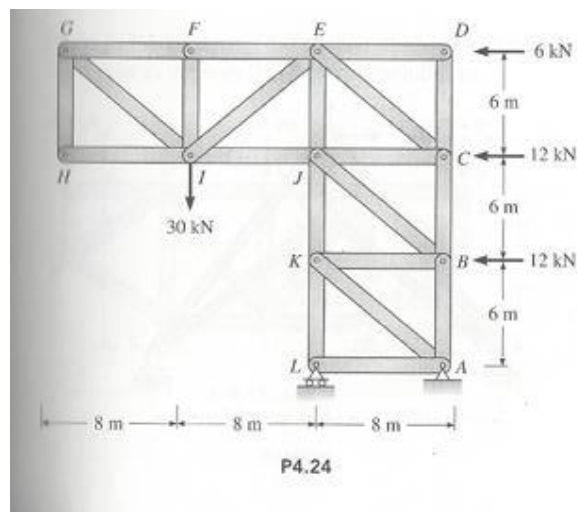Problem 1: Determine the forces in all bars of the trusses using method of sections. Indicate tension or compression.

C   F = 100 kips

15'

B

15'

A

E

D

20'   20'

P4.7

Problem 3: Draw the shear and moment diagrams, label the maximum values of shear and moment, and locate points of inflection.

w = 12 kips/ft

P = 20 kips

hinge

A   B   C   D

10'   5'   15'

P5.15

Problem 2: Determine the forces in all truss bars using method of sections. Indicate tension or compression.

G   F   E   D

6 kN

6 m

H   I   J   C   12 kN

6 m

30 kN

K   B   12 kN

6 m

L   A

8 m   8 m   8 m

P4.24

Problem 4: Draw the shear and moment diagrams, label the maximum values of shear and moment, and locate points of inflection.

P = 12 kips

w = 5 kips/ft

A   hinge   B   C   D

20'   6'   24'

P5.19