King Fahd University of Petroleum & Minerals
CIVIL ENGINEERING DEPARTMENT

CE 201
STATICS

First Semester 1422 / 2001-02 (**011**)

H.W. # 12

Due on Sunday 10-9-1422 / 25-11-2001 **(any time)**

Deadline for submission: Monday 11-9-1422 / 26-11-2001 (**before you sit in class**)

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1) Determine the equations and draw the diagrams for the shear force and bending moment for the beam shown in Fig. P1 below. [Sec. 7.2] (20 pts.)

2) Determine the shear force and bending moment equations and diagram for the beam shown below in Fig. P2. [Sec. 7.2] (25 pts.)

3) Solve problem 7-53 (p.345) in the textbook, but let the10-ft dimension be 8 ft and the 150-lb/ft load be 200 lb/ft. [Sec. 7.2] (30 pts.)

4) Solve problem 7-59 (p.346) in the textbook, but let the left end of the beam free and the right end fixed, the 4-kip/ft load be 5 kip/ft, the 12-ft dimensions be 10 ft, and add an upward force in the middle equals to 30 kip. [Sec. 7.2] (25 pts.)

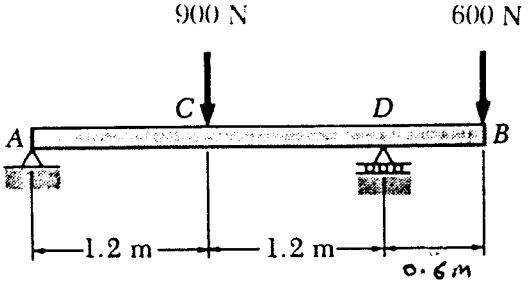

Fig. P1

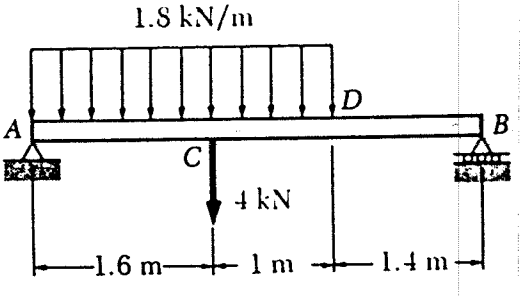

Fig. P2

*** 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.**