



Statics



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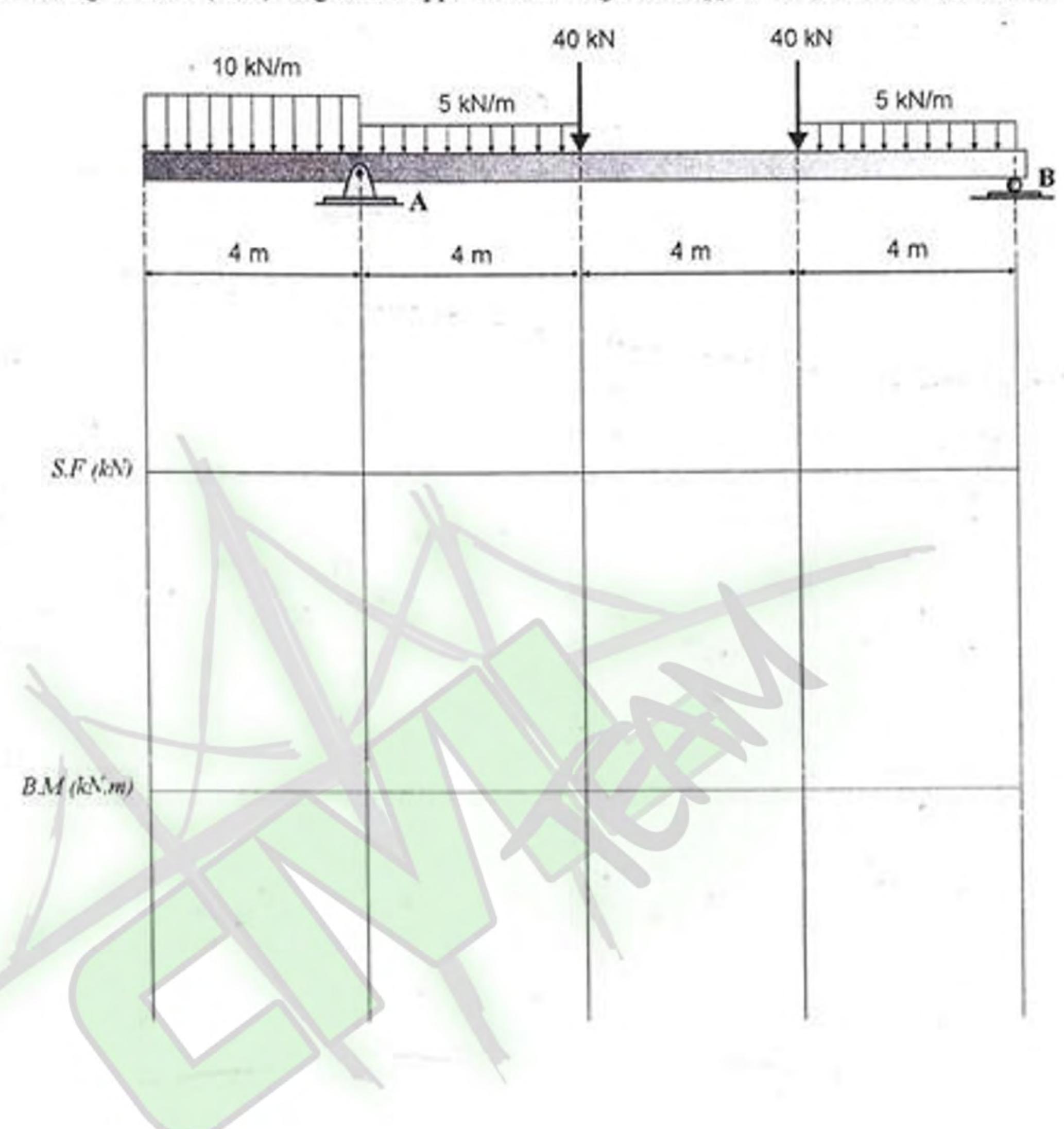


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Faculty of Engineering Technology

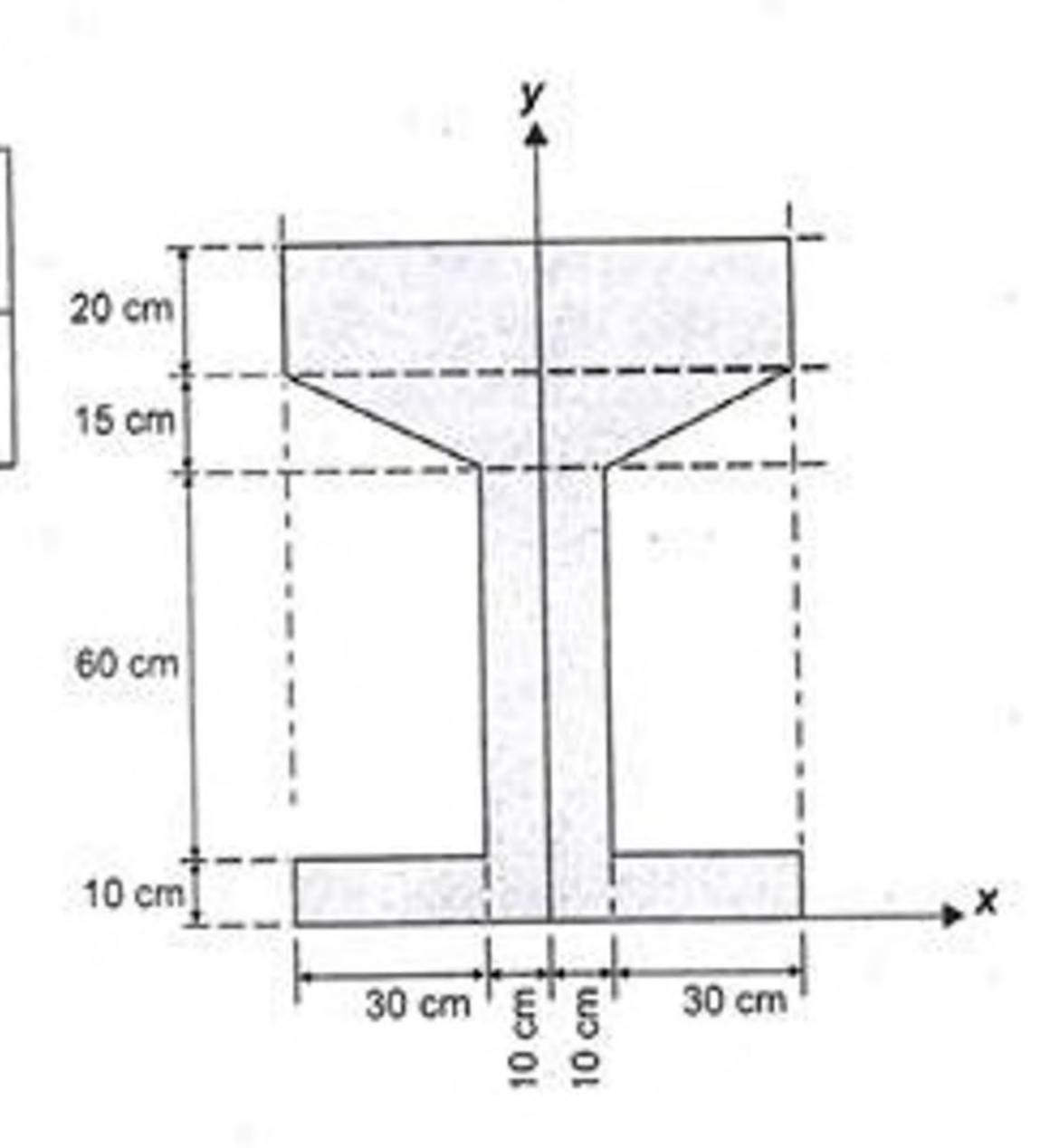
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	رقم الطالب:	إسم الطالب:
	وقت المحاضرات:	مدرس الشعبة:
Time: 100 minutes	Statics	Final exam- First Semester 2012-13

Q1: Draw the shear force (S.F) and bending moment (B.M) diagrams. Support A is a hinge and support B is a roller. (13marks)



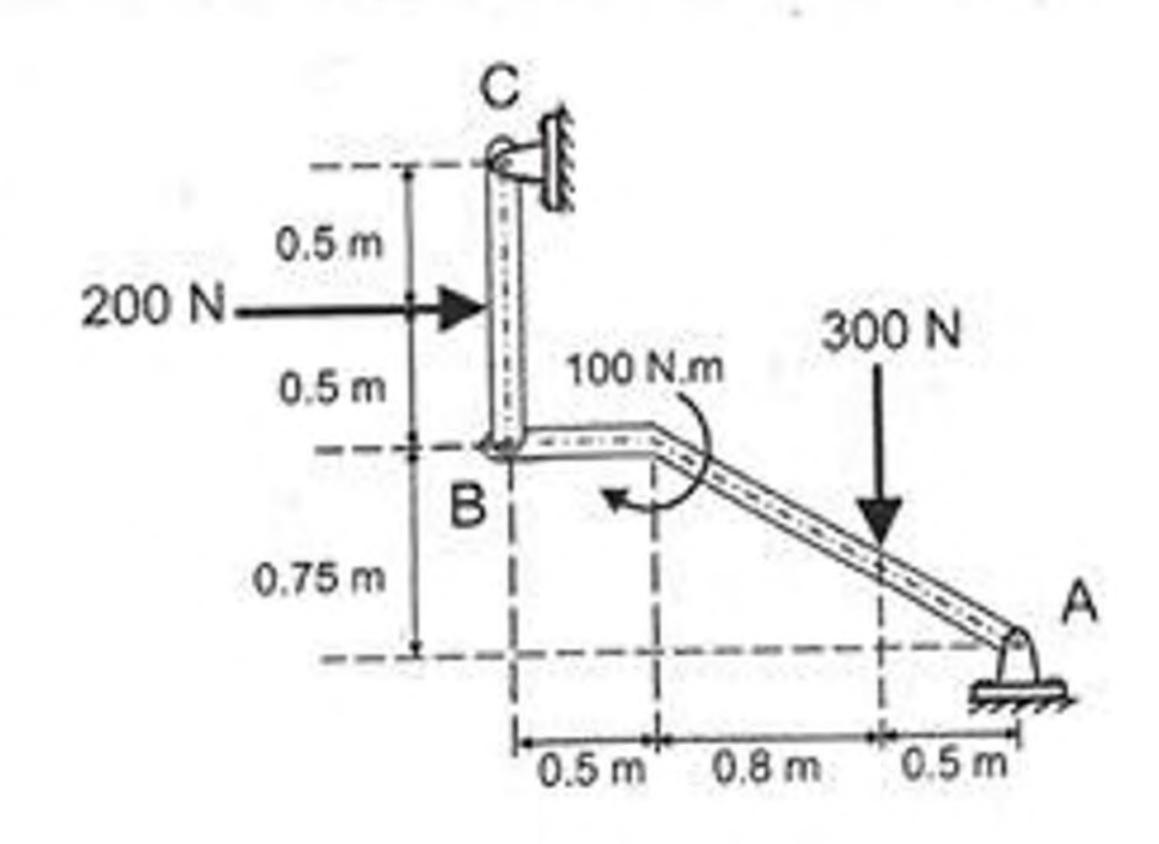
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Y (cm)	$ar{I}_{\chi \; (cm^4)}$	$\bar{I}_{y \text{ (cm')}}$	I x (cm*)





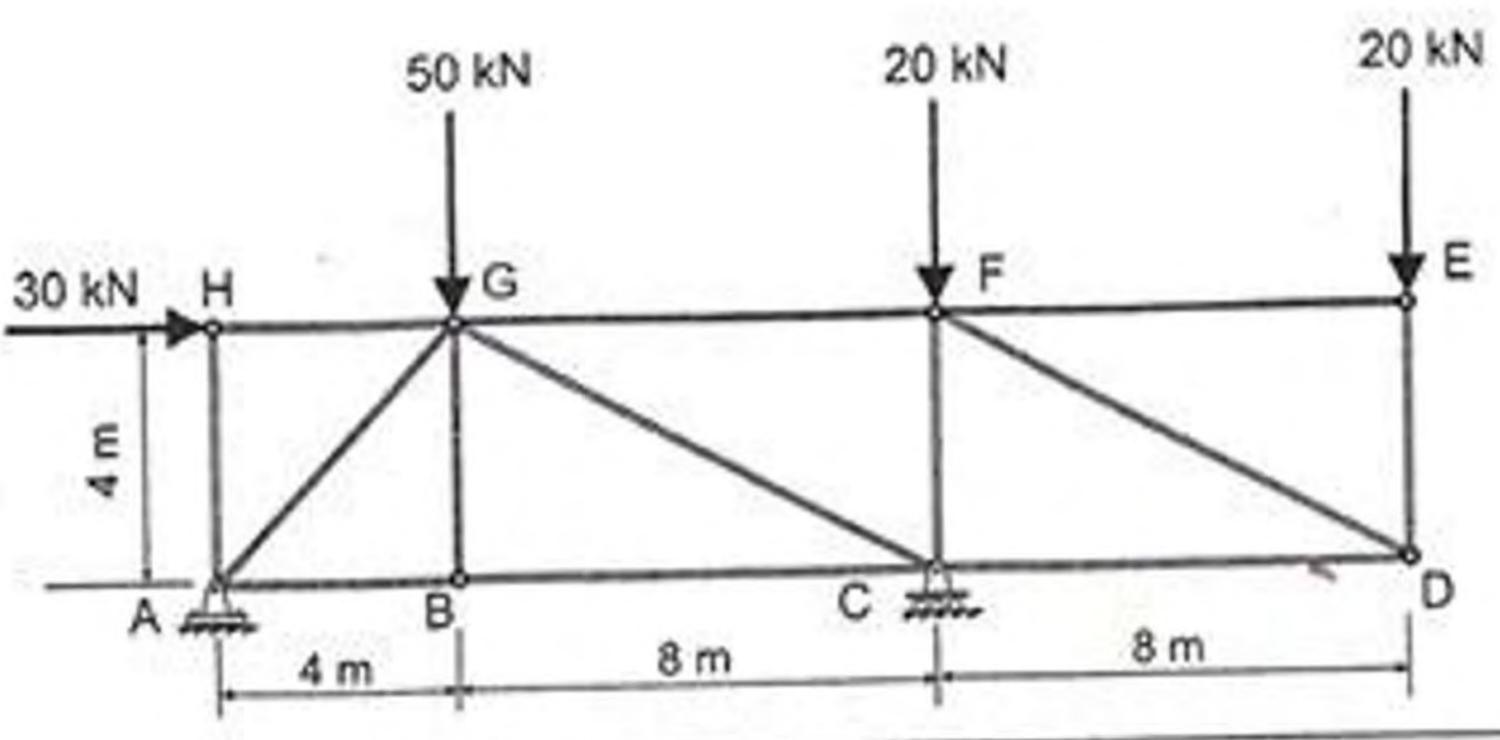
Q4: The frame is subjected to the shown forces and couple moment. Given that supports A and C are hinges and B is a pin, determine the horizontal and vertical components of reactions at pins A and C. (12 Marks)





Q3: For the truss shown, support A is a hinge, support C is a roller. Determine the vertical reaction at A, then determine the internal forces in the members: AB, GF, GC, and specify if tension (T) or compression(C).

(13 marks)



The magnitude of internal force in the members are:

4. (kN)	F_{AB} (kN)	F _{GF} (kN)	F_{GC} (kN)
A_{g} (KiV)	2.70		

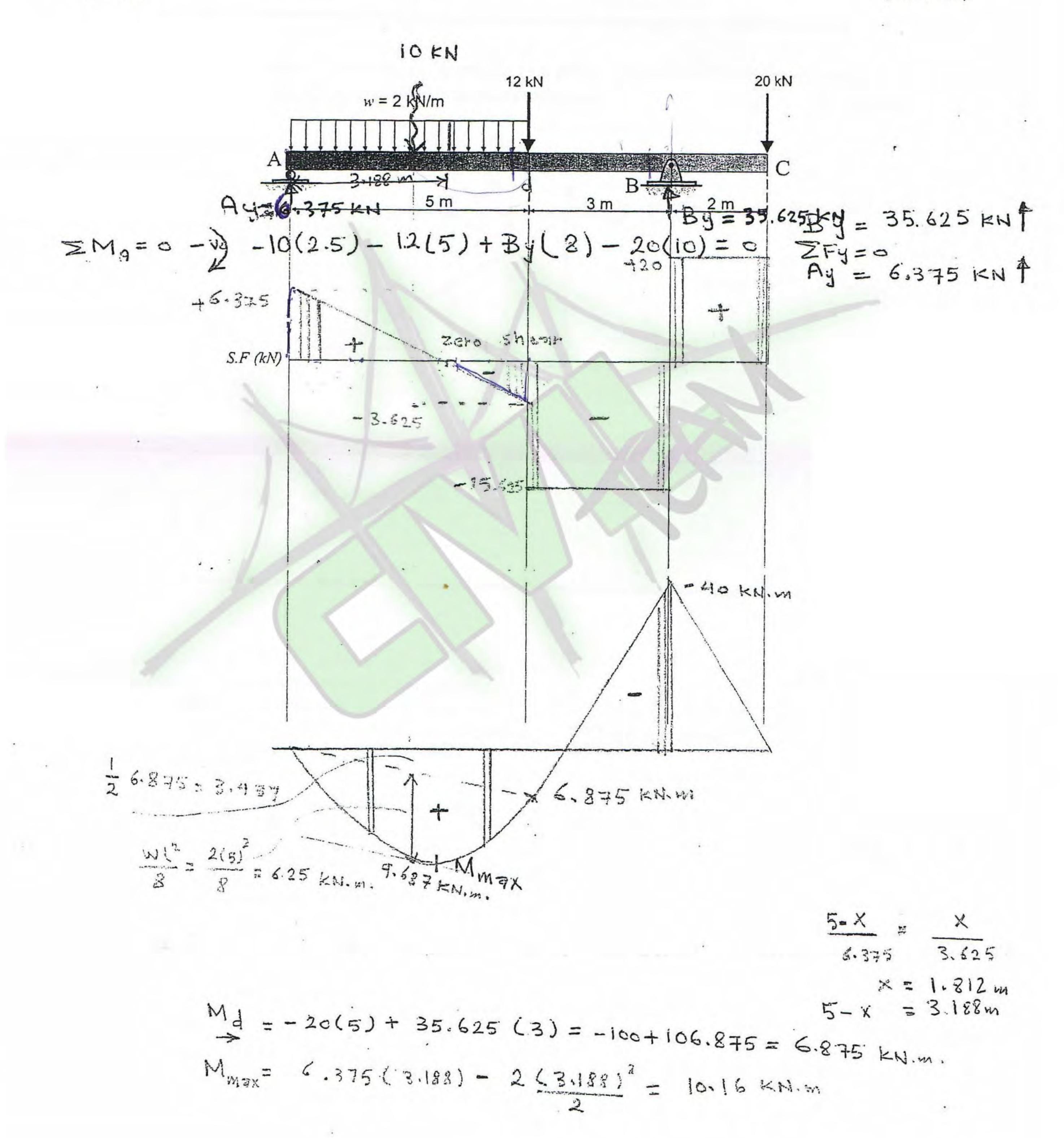


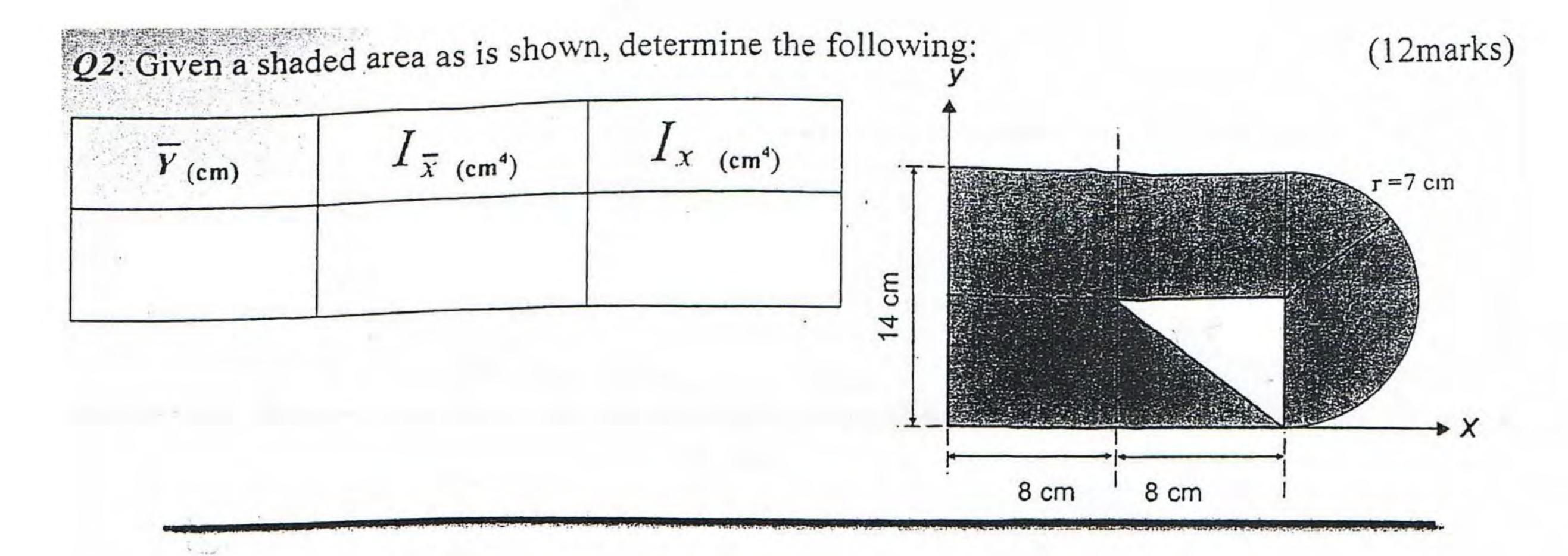
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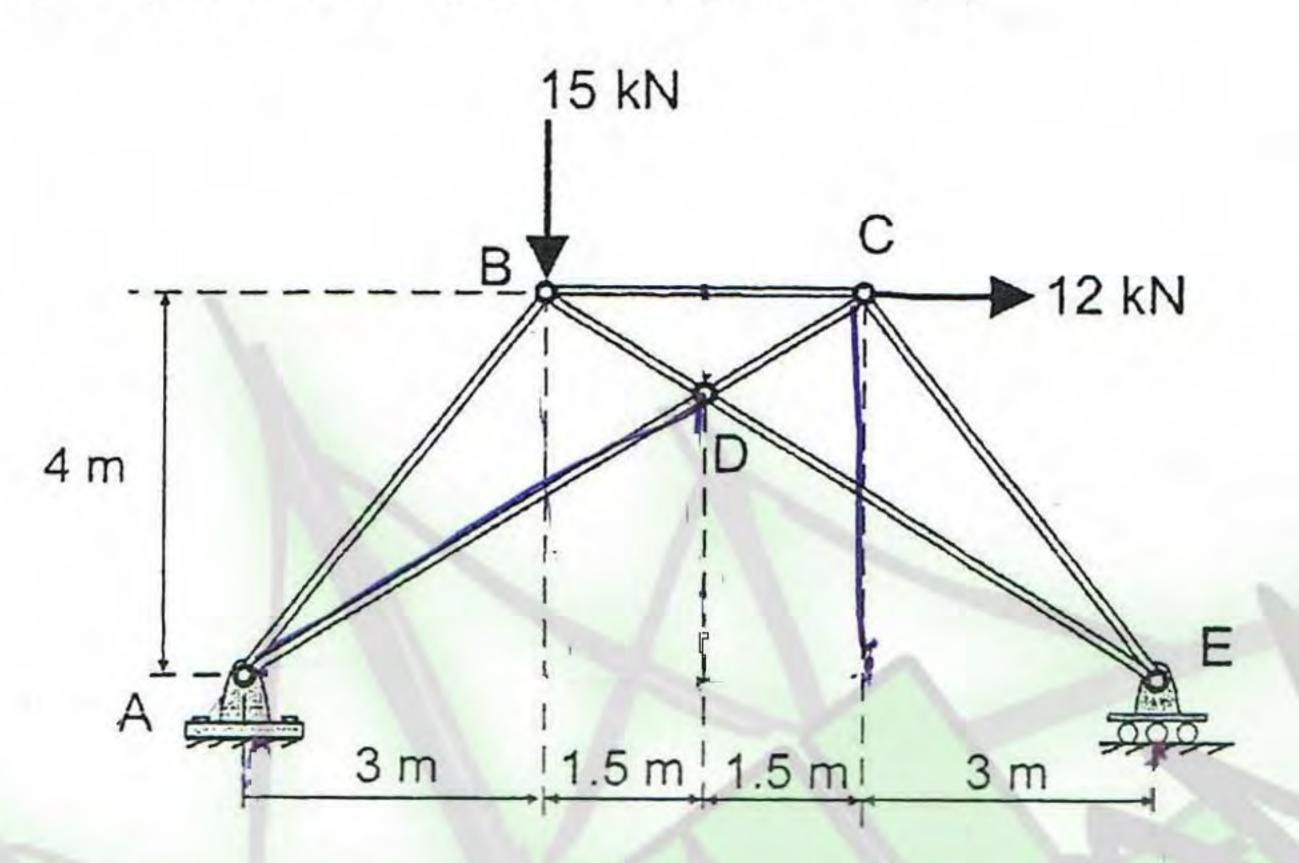
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	رقم الطالب:	إسم الطالب:
	وقت المحاضرات:	مدرس الشعبة:
Time: 2 hours	Statics	Final exam- First Semester 2011

Q1: Draw the shear force (S.F) and bending moment (B.M) diagrams. Support A is a roller and support B is a hinge. (13marks)





Q3: For the truss shown, support A is a hinge, support E is a roller. Determine the internal forces in the members: AB, BD, BC and specify if tension (T) or compression(C). (13 marks)



The magnitude of internal force in the members

Q4: The frame is subjected to the shown force. Given that supports A and B are hinges and C is a pin, determine the horizontal and vertical components of the internal reaction at pin C, and the reactions A_y and B_x. (12 Marks)

C_{y}	Ay	$\mathbf{B}_{\mathbf{x}}$
	Су	C _y A _y

