

Issued: 22 September 2017

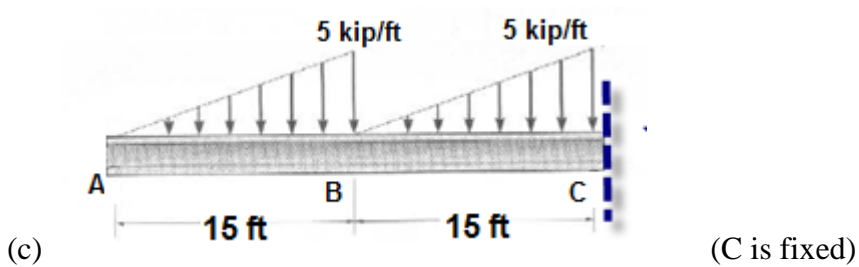
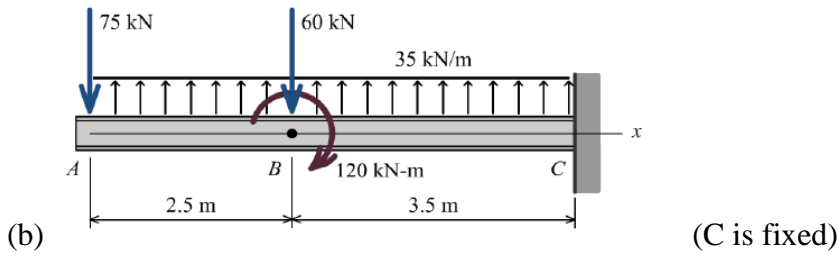
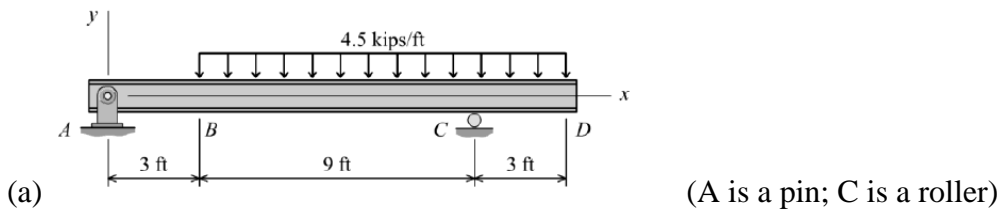
Due: 29 September 2017 @ 4 pm

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Marking: marked out of 20 marks

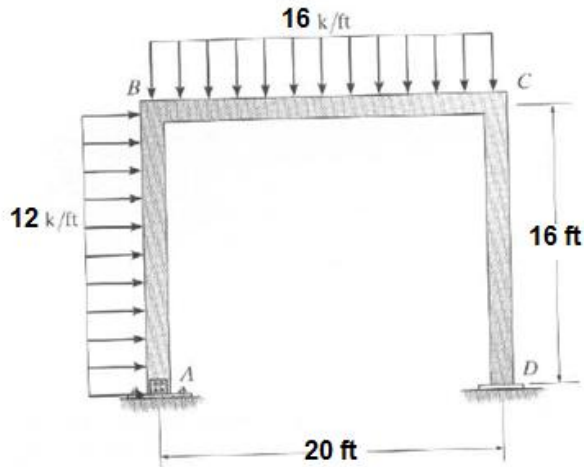
PART 1 (12 marks)

Draw the shear (V) and Moment (M) diagrams for the following beams:



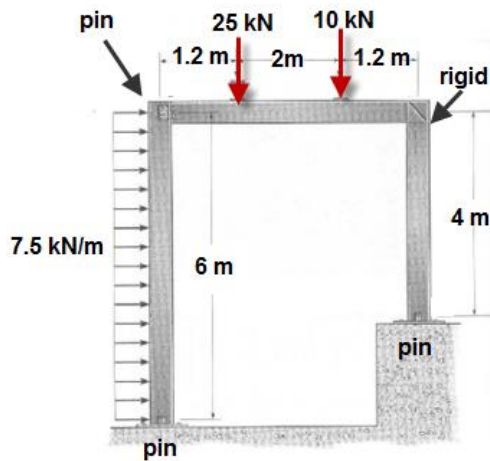
PART 2 (8 marks)

Draw the shear (V) and Moment (M) diagrams for the following frames:



(a)

(A is a pin; D is a roller)



(b)

* **Hint:** to solve the reactions analyze the left side column first...