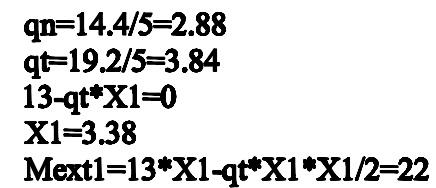
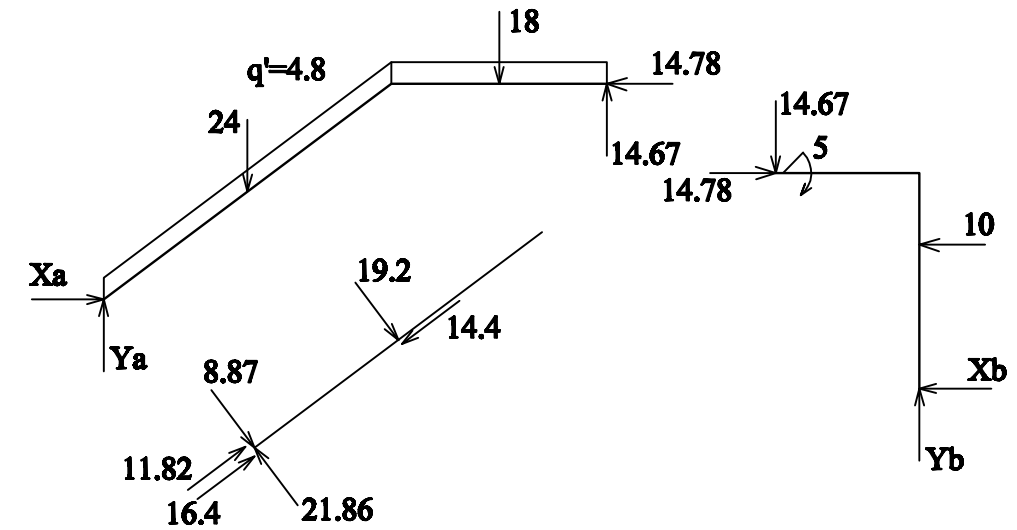
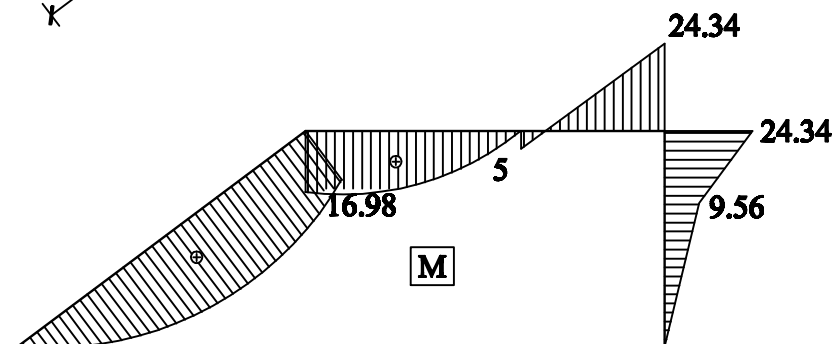




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- The diagram shows a frame structure with a horizontal span of 5 units and a vertical height of 4 units. A distributed load $q' = 4.8$ acts vertically downwards on the inclined member. A point load of 24 acts vertically downwards at the midpoint of the inclined member. At the right end of the horizontal member, there is a horizontal point load of 10 acting to the left and a vertical point load of 24 acting upwards. The reaction forces at the supports are labeled X_a and Y_a at the left support, and X_b and Y_b at the right support. A counter-clockwise moment of 5 is applied at the right end of the horizontal member.



$$f = 4.8 \times 25 / 8 = 15$$
$$f' = 6 \times 9 / 8 = 6.75$$



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