Class Test on CE 2213

Congugate Beam Method (Time = 10 Minutes)

* Required

Email *

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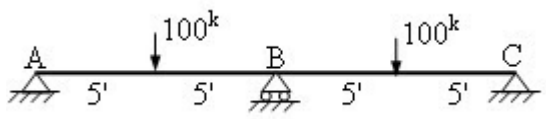
Roll No.(Write Full Roll i.e. 1800023): *

1800131

I am promising that I shall not adopt any unfair means. *

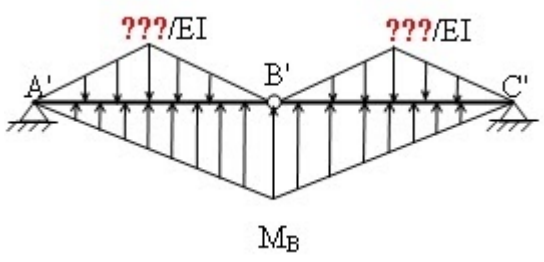
- (●) Yes
- ( ) No

Question: Transform the following Real Beam to Conjugate Beam, draw SFD & BMD and answer following question, if Moment at Point 'B' (MB) is -187.5 k-ft.



Your answer

Q.1 What is the Value of Moment in k-ft (???) in the Following Figure? 10 points



250 & 250

Q.2 What is the Value of RA (Reaction of Left Support in Kip)? * 10 points

- 35.50
+ 35.50
- 25.50
+ 25.50
+ 31.25
- 31.25 k

Q. 3 What is the Value of RB (Reaction of Mid Support in Kip)? 10 points

+137.5k
-188.5k
-137.5k
+ 88.5k
+188.5k
- 88.5k

Q.4 What is Magnitude of Maximum Positive Shear? 15 points

75.50k
56.50k
31.25k
72.75k
68.75k

Q.5 What is Magnitude of Maximum Negative Shear? 15 points

-137.50k
-68.75k
-31.25k
-90.75k
-156.25k

Q.6 What is Magnitude of Maximum Positive Moment? 20 points

- 375.75 k-ft
- 156.25 k-ft
- 700.50 k-ft
- 225.50 k-ft
- 175.55 k-ft

Q. 7 What is Magnitude of Maximum Negative Moment? 20 points

- -137.50 k-ft
- -187.50 k-ft
- -225.75 k-ft
- -325.95 k-ft
- --107.75 k-ft

Submit