

## ENDS 231: Practice Quiz 2

*Note: A one page (one sided) crib sheet is allowed during the quiz, along with a silent, **non-programmable** calculator.*

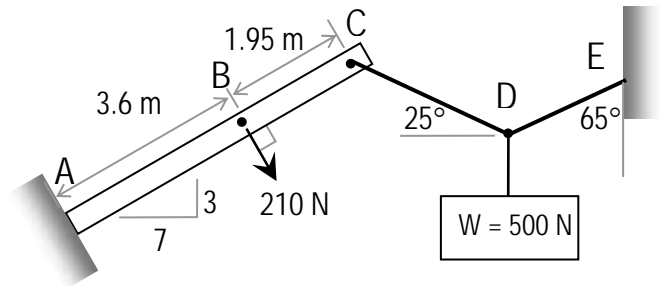
Clearly show your work and answer.

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The structure shown is supporting a cable system with a force due to a mass. (*NOTE: The support configuration for the non-cables in the system and the slopes of the cables can be changed for the quiz!*)

Using clear free body diagrams, determine:

- the forces in cables CD and DE.
- the support reactions (with direction).
- [some short question from the text material]



*Answers – Not provided on actual quiz!*

- CD = 591.6 N, DE = 591.6N
- $A_x = -618.9$  N  $A_y = 443.0$  N,  $M_{RA} = +3203.4$  N-m

**Disclaimer: Answers have NOT been painstakingly researched.**