

## ENDS 231: Practice Quiz 4

Clearly show your work and answer.

---

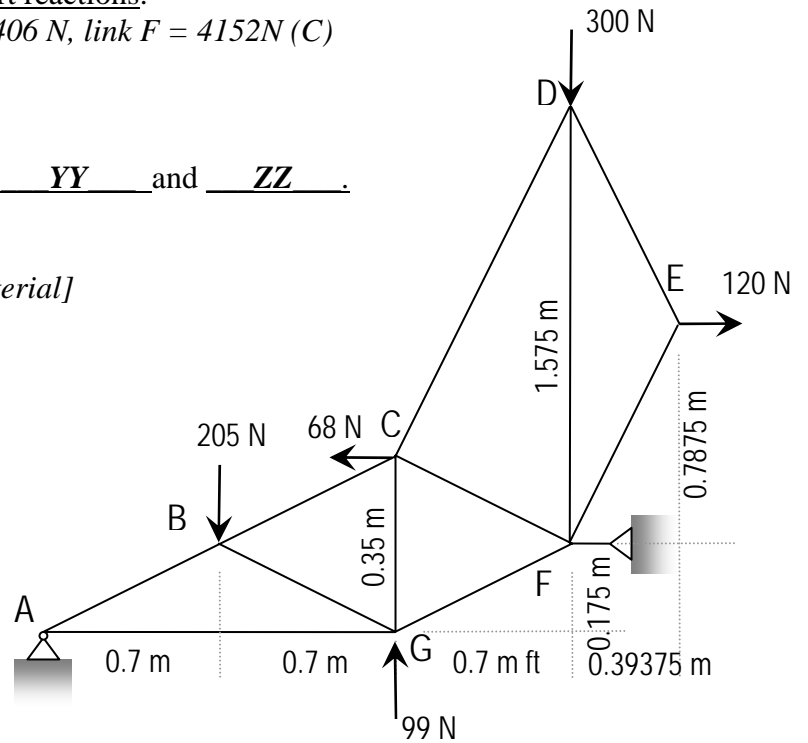
The truss shown has the following support reactions:

$$A_x = 4100 \text{ N}, A_y = 406 \text{ N}, \text{link } F = 4152 \text{ N (C)}$$

Using the method of sections *only*, find:

a) the member forces in XX, and YY and ZZ.  
(one section cut)

b) [some short question from the text material]



Answers:

- a) BC = 1251.4 N (C), BG = 422.6 N (C), and AG = 2476 N (C)  
 or BC, CG = 725 N (T), and GF = 2974.8 N (C)  
 or CD = 134.2 N (T), CF = 1243.1 N (C), and GF  
 or CD, DF = 540 N (C), and FE = 134.2 N (T).

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