

Homework 1

(Due: Friday, September 16, 2022 at 11:59pm)

Question 1: 10 points

Classify each of the structures as statically determinate, statically indeterminate, stable or unstable. For those cases that are indeterminate, specify the degree of indeterminacy.

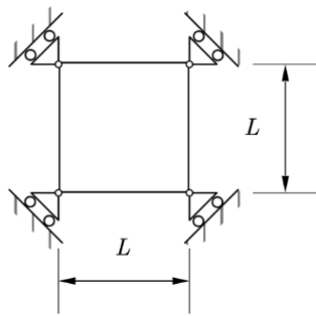


Figure 1

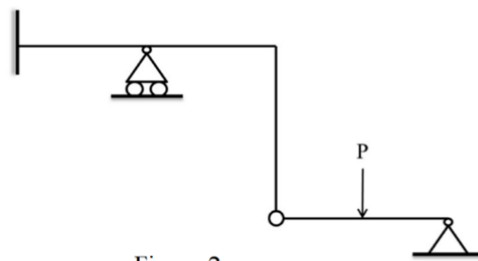


Figure 2

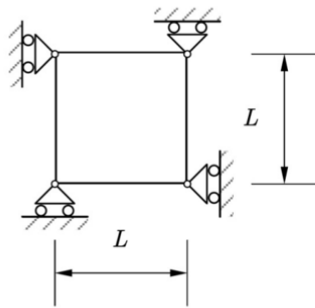


Figure 3

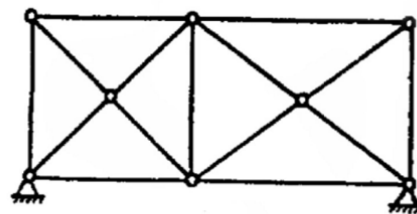


Figure 4

Question 2: 10 points

Determine the reactions on the structures below.

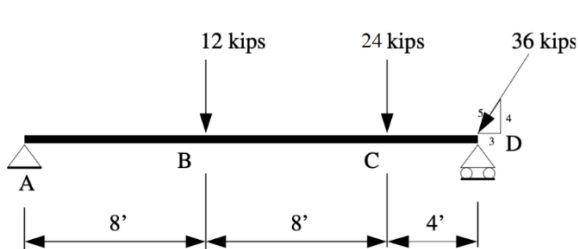


Figure 5: Question 2 (a)

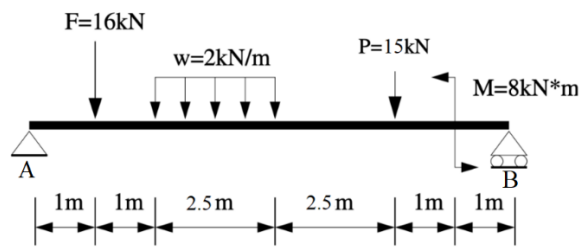


Figure 6: Question 2 (b)