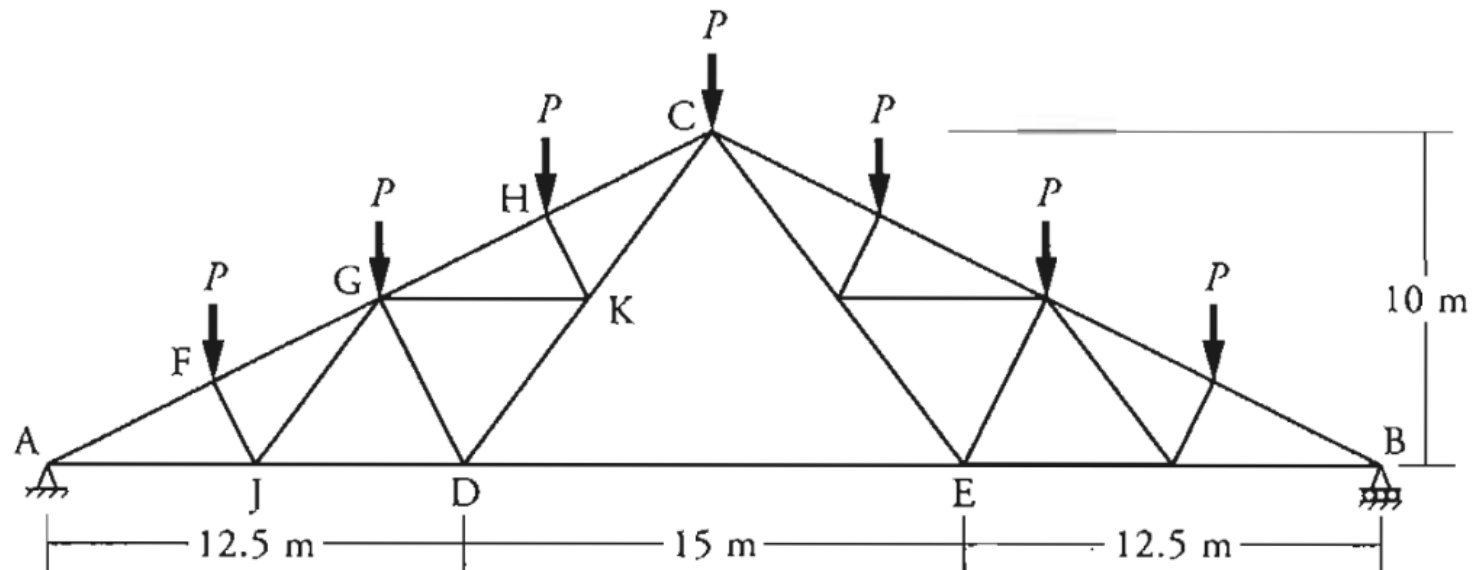
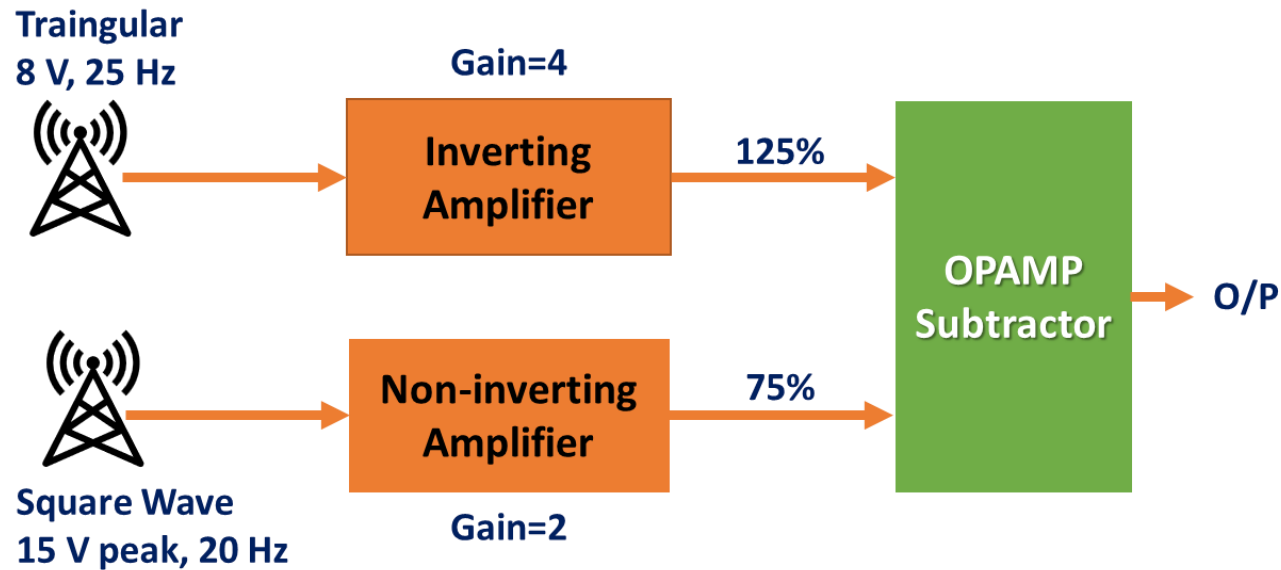


PART A

Write a computer program to solve the system of linear equations to determine the value of the member forces for the truss shown in the figure for different values of P ranging from 10 kN to 100 kN with an increment of 5 kN.



PART B



Create MATLAB code to mimic the operating concept of the OPAMP-based system given below.

- MATLAB codes should estimate the instantaneous voltage values at all the stages.
- If the final output is applied to an inductor, demonstrate the variation in the energy stored in it. Choose a suitable numerical approach.