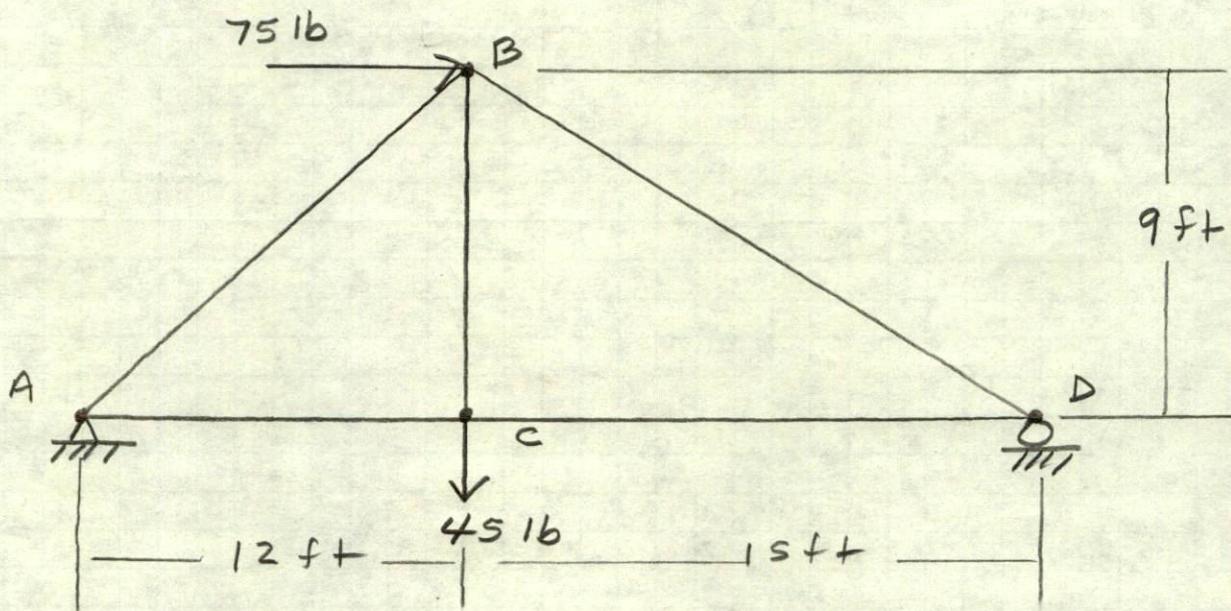
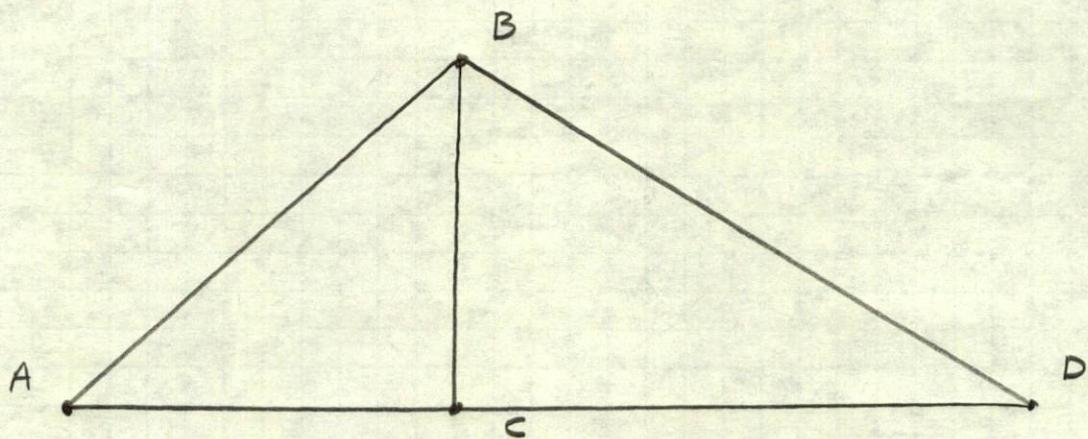


1. Complete the following steps to determine the force in each member of the truss using the Method of Joints



A. Complete the FBD



FBD - Entire Truss

B. Use the following equilibrium equations to determine the reactions at A and D.

$$[\sum M_A = 0]$$

AMPAD®

$$[\sum F_x = 0]$$

$$[\sum F_y = 0]$$

c. complete the FBD of Joint A

A .

AMPADE

D. Using the FBD for joint A determine the force
in members AB and AC.

$$[\sum F_y = 0]$$

$$[\sum F_x = 0]$$

E. complete the FBD for Joint C

• C

Annpad'

F. using the FBD for Joint C determine the force
in members BC and CD.

$$[\sum F_x = 0]$$

$$[\sum F_y = 0]$$

G. Complete the FBD for joint D

• D

H. Using the FBD for joint D determine the force in member BD