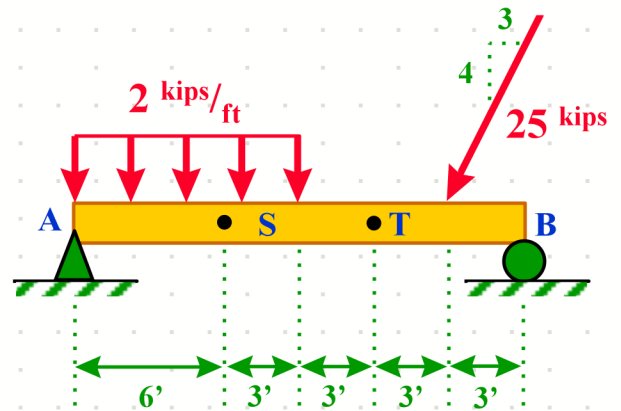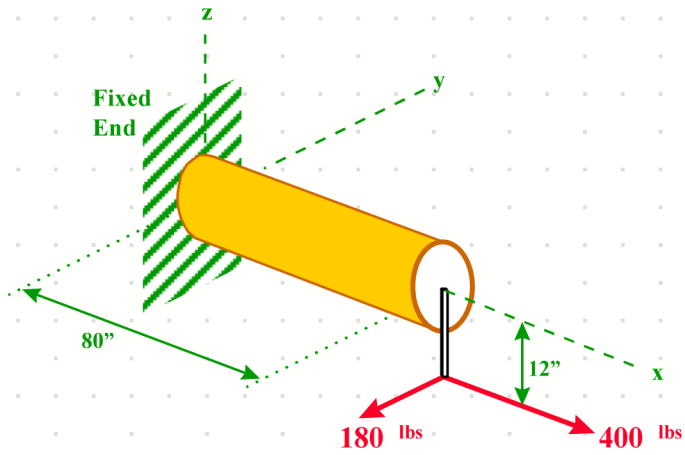Given: Beam with applied loads as shown.

Determine the internal forces on a transverse cross-section through points "S" and "T."

Worksheet #1B
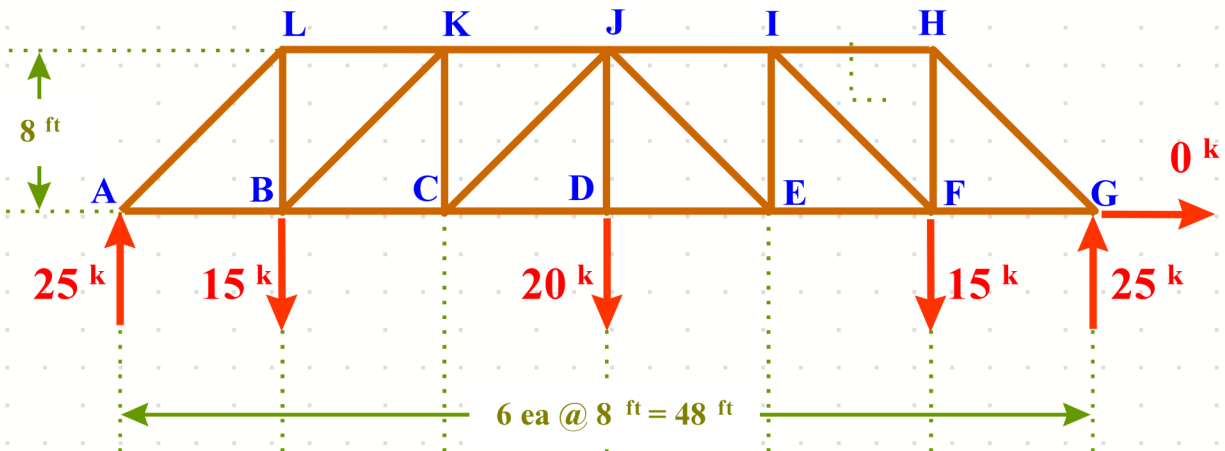## Internal Forces

Find the external reactions at the fixed end of the structure shown.

Worksheet #1C
Internal Normal Forces/Stresses

Given: The cross-sectional area of all truss members below is 4 in². For the loads and reactions shown:

Determine the <u>normal stress</u> on a <u>transverse plane</u> in member IH.

Given: Member GF of the pin-connected truss has a cross-sectional area of 7.4 in^2

Determine the maximum normal stress in GF.

2000 ^{lbs}

4000 ^{lbs}

4000 ^{lbs}

2000 ^{lbs}

B

C

D

E

A

G

F

15 ^{ft}

3 ea @ 12 ^{ft} = 36 ^{ft}