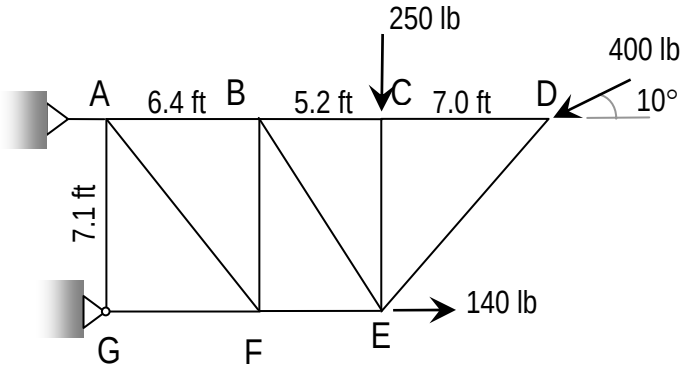
ENDS 231: Practice Quiz 3

Clearly show your work and answer.

The truss shown has the following support reactions:

link A = 196.5 lb (T), G_x = 450.4 lb, G_y = 319.5 lb

Using the method of joints *only,* find:



a) the member forces at joint ___***X***___.
(having 2 unknowns)

b) the remaining force at the adjacent joint ___***Y***___.if the member force in ***CE is 250lb (C) or AB is 91.5 lb (C) or AF is 430.1 lb (T) or BF is 319.5 lb (C) or BE is 396 lb (T)***

c) *[some short question from the text material]*

Answers:

a) CD = 325.4 lb (C), DE = 97.5 lb (C),
or AG = 319.5 lb (C), GF = 450.4 lb (C)
b) *all other forces:* FE = 162.4 lb (C), BC = 325.4 lb (C)