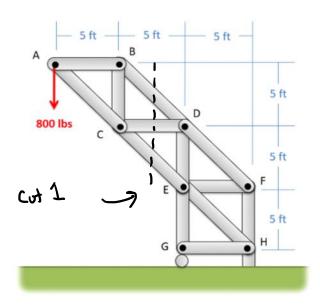
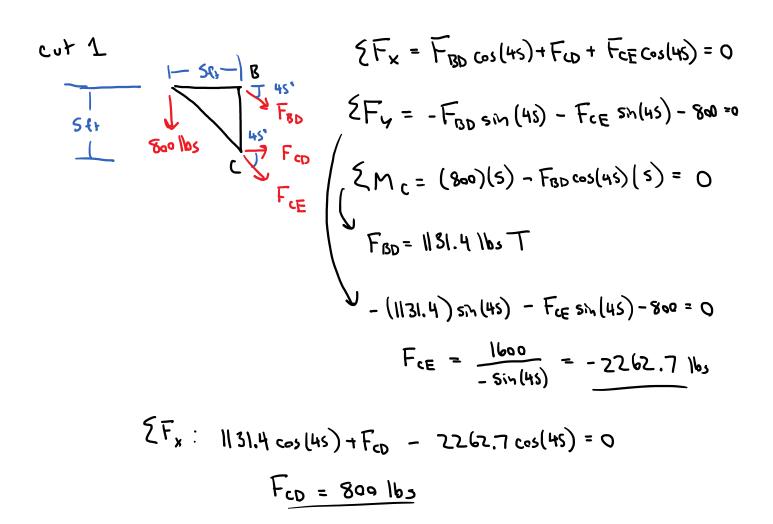
Problem 4

Use the method of sections to find the forces in members AC, BC, CD, and CE. Be sure to indicate if the forces are tensile or compressive.





Fac Fac
$$SF_{x} = -F_{Ac} \cos(4s) - 2262.7 \cos(4s) + 800 = 0$$

Fac $F_{Ac} = -1131.4 \text{ lbs}$
 $SF_{y} = F_{Ac} \sin(4s) + F_{Bc}$
 $SF_{y} = F_{Ac} \sin(4s) + F_{Bc}$

Solution: