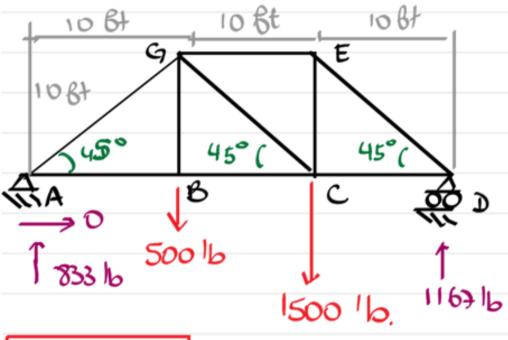


System: whole truss EFx=0 =) Ax=0

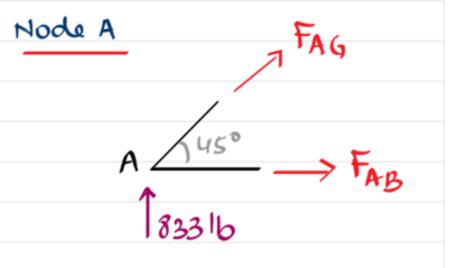
Strategy

Node A -> AG, AB Node B => BG, BC Node D => CD, ED Node C => CE, GC Node E => EG.



Strategy

Node A => AG, AB Node B -> BUIBC Node D =) CD, ED Noch (=) (E, 40 Node & = EG



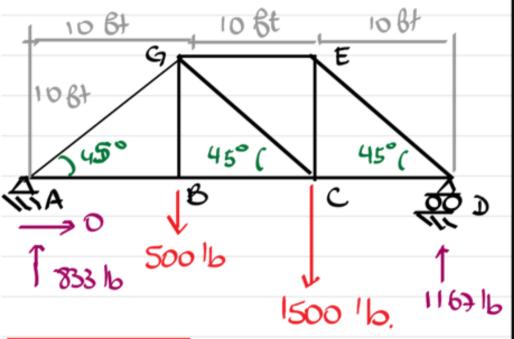
$$\Xi F_{Y} = 0 = 833 + F_{AG} \frac{1}{\sqrt{z}} = 0$$

$$F_{AG} = 833 \sqrt{z} \quad \text{lb} \quad (c)$$

$$2F_{x}=0 \Rightarrow F_{AG}\frac{1}{\sqrt{2}} + F_{AB}=0$$

=) $F_{AB} = 8331b$ (T)

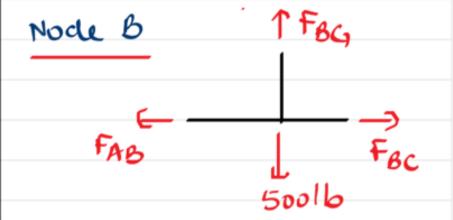
02/23/2018



Strategy

$$F_{AG} = -833 VZ (C)$$

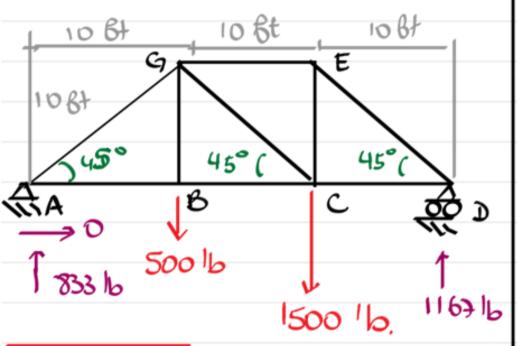
 $F_{AB} = 833 Ib (T)$



$$\Sigma f_{y=0} = \int_{BC} f_{BC} = 500 lb (T)$$

 $\Sigma f_{x=0} = \int_{BC} f_{BC} = 833 lb (T)$





Strategy

Node A => AG, AB

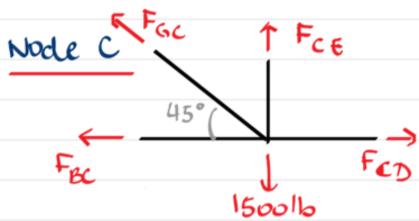
Node B => BG, BC

Node D => CD, ED

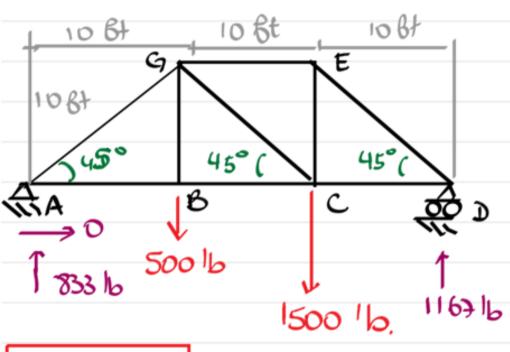
Node (=> CE, GC

Node E => EG

$$F_{AG} = -833\sqrt{2}$$
 (()
 $F_{AB} = 833 \text{ lb}$ (T)
 $F_{BG} = 500 \text{ lb}$ (T)
 $F_{BC} = 833 \text{ lb}$ (T)
 $F_{CD} = 1167\sqrt{2} \text{ lb}$ (t)
 $F_{ED} = -1167\sqrt{2} \text{ lb}$ (()



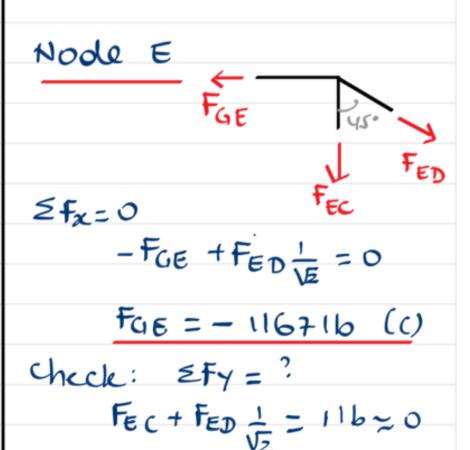
02/23/2018

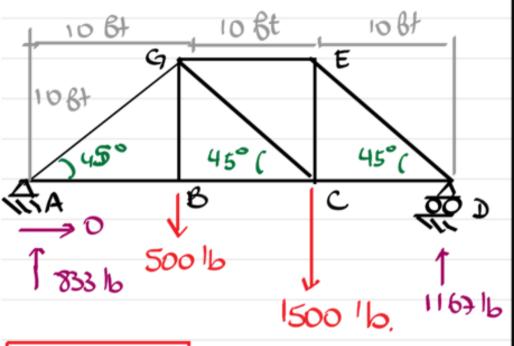


Strategy

Node A => AG, AB V Node B => BC1 BC V Node D = CD, EDNoch (=) (E, 40 V Node & = EG

$$F_{AG} = -833V_2 / b (1)$$
 $F_{AB} = 833 / b (T)$
 $F_{BG} = 500 / b (T)$
 $F_{BC} = 833 / b (T)$
 $F_{CD} = 1167 / b (T)$
 $F_{CD} = -1167 / 2 / b (T)$
 $F_{GC} = 334 / 2 / b (T)$
 $F_{CE} = 1166 / b (T)$





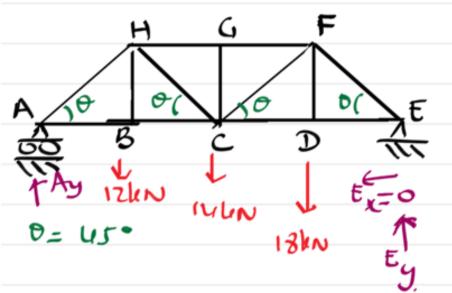
Strategy

Node A => AG, AB ~ Node B => BUIBC V Node D =) CD, ED Noch (=) (E, GC, Node & = E4

$$F_{AG} = -833\sqrt{2} \, lb \, (1)$$
 $F_{AB} = 833 \, lb \, (T)$
 $F_{BG} = 500 \, lb \, (T)$
 $F_{BC} = 853 \, lb \, (T)$
 $F_{CD} = 1167 \, lb \, (T)$
 $F_{CD} = -1167\sqrt{2} \, lb \, (T)$
 $F_{GC} = 334\sqrt{2} \, lb \, (T)$
 $F_{CE} = 1166 \, lb \, (T)$
 $F_{GE} = -1167 \, lb \, (C)$

Check Node G

$$2f_{x}: \frac{-f_{AG}}{\sqrt{2}} + f_{GC}\frac{1}{\sqrt{2}} + f_{GE} = 0$$

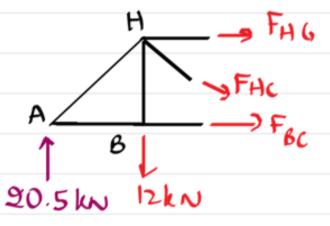


System: whole truss

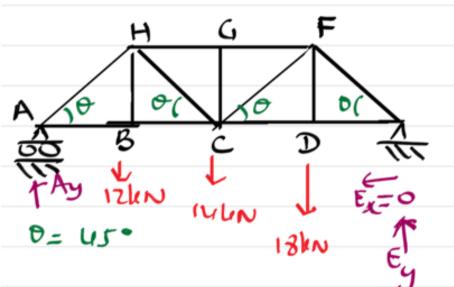
$$\geq M/A = 0$$
 $= \frac{12 + 14 \times 2 + 18 \times 3}{4}$

HC, HG, BC

Straight Section between and 6



$$\geq H/H = 0$$
 $F_{BC} = 20.5kN \frac{AB}{BH}$
 $F_{BC} = 20.5kN (T)$

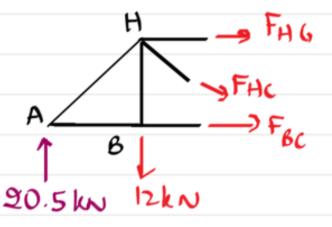


System: whole truss

$$\geq M/A = 0$$
 Ey = $\frac{12 + 14 \times 2 + 18 \times 3}{4}$

HC, HG, BC

Straight Section between H and G



FBC = 20.56N(T) FHG = - 29.0 bN (()

$$26.5kN-12kN-\frac{FHC}{VZ}=0$$

FHC = 12 kN (T)

