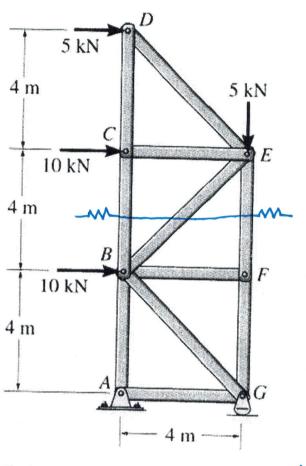
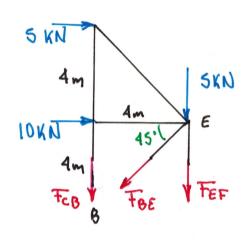
Determine the force in members BC, BE, and EF from the truss shown below.



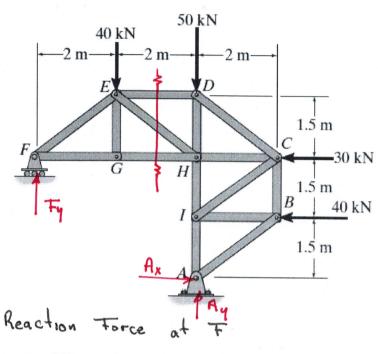
Cut through members BC, BE, EF
No need to find reaction at supports



$$\Sigma M_{\varepsilon} = 0$$
  $F_{CB}(4) - 5(4) = 0$   $F_{CB} = SKN(T)$ 
 $\Sigma M_{S} = 0$   $-10(4) - 5(8) - 5(4) - F_{\varepsilon +}(4) = 0$ 
 $F_{\varepsilon +} = \frac{-100}{4} = -2S$   $F_{\varepsilon +} = 2SKN(C)$ 
 $\Sigma F_{V} = 0$   $25 - S - F_{SE}SIN(4S = 0)$ 
 $F_{SE} = \frac{15}{SIN(4S)} = 21.21$   $F_{SE} = 21.2 KN(T)$ 

Note that, we could have used  $\Sigma F_{X} = 0$  as well  $\Sigma F_{X} = 0$   $\Sigma F_{X} = 0$ 

TBE = 15 = 21.24 KN (T)



Given:Loads as shown on the truss.

Find: The forces in members ED, EH, and GH.

$$-\frac{1}{4}$$
 (4) + 40(2) + 30(3) + 40(1.5) = 0