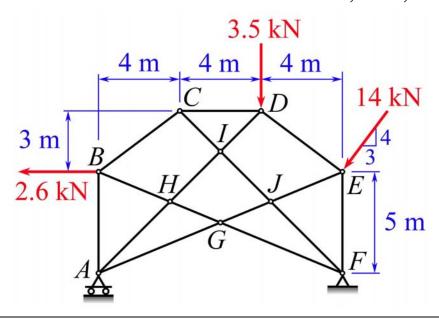
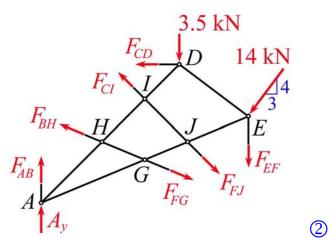
Quiz #8. A compound truss is loaded as shown. Determine the forces in members *CD*, *DE*, and *AH*.





By X-joint properties and rigidbody principle, we may neglect the pair of forces  $F_{BH}$  and  $F_{FG}$ ,

as well as the pair of forces  $F_{CI}$  and  $F_{FJ}$ , in the FBD. ①

$$F_{CD} = 8.4 \text{ kN } (C)$$
 2
$$3.5 \text{ kN}$$
 $8.4 \text{ kN}$ 
 $D$ 
 $F_{DI} = 8.5 \text{ kN } (C)$  2
$$F_{AH} = F_{DI}$$

$$F_{AH} = 2.26 \text{ kN } (T)$$
 2