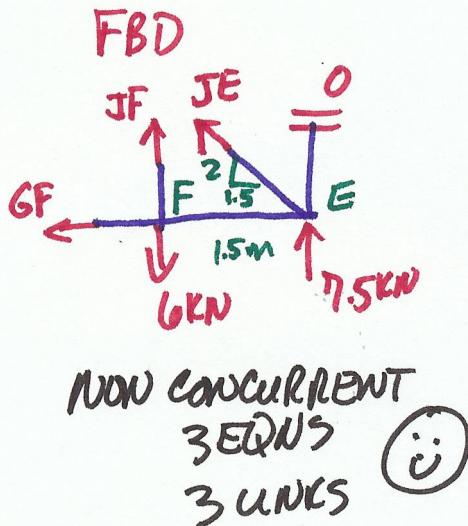
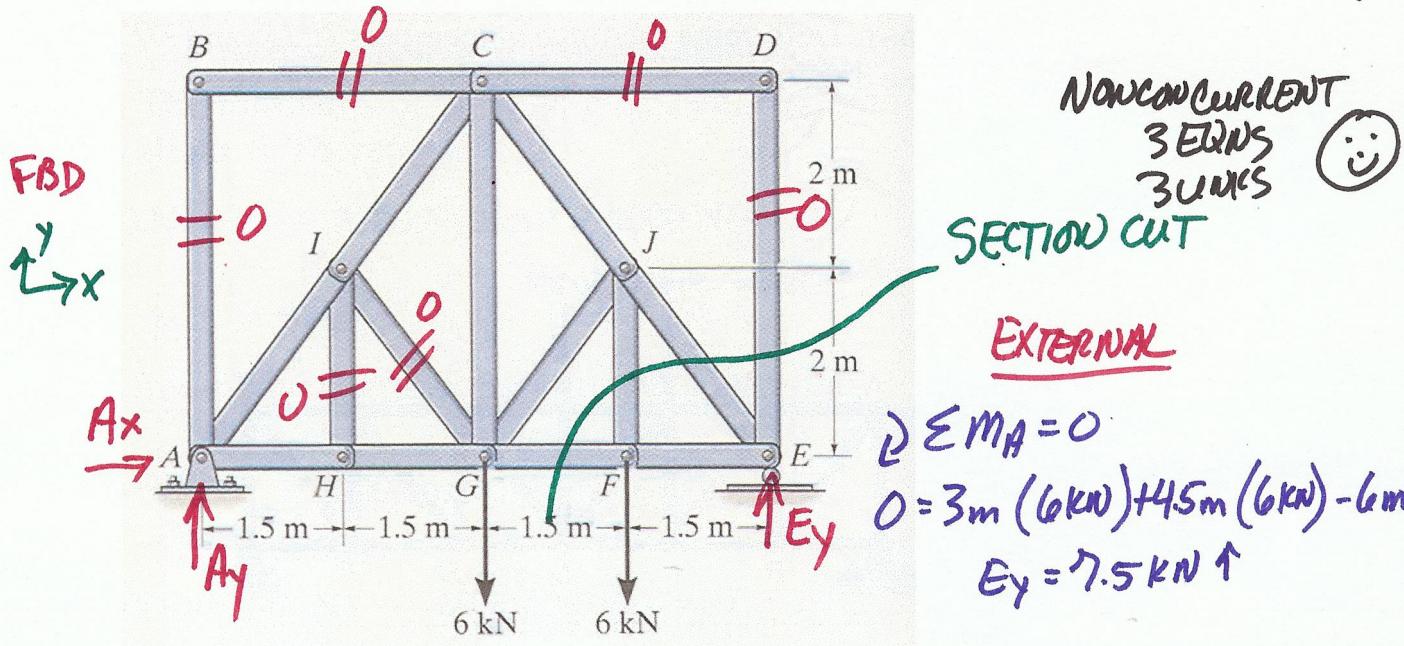


Worksheet 10

Problem 2 – Method of Sections and Zero Force Members in Trusses

Identify all zero force members. Determine the forces in members JE, GF and JF.



$$\begin{aligned} \rightarrow \sum F_x &= 0 \\ -GF - \frac{1.5}{2.5}JE &= 0 \\ JE &= -9.375 = 9.38 \text{ kN (C)} \end{aligned}$$

$$\uparrow \sum F_y = 0$$

$$JF - 6\text{kN} + \frac{2}{2.5}JE + 7.5 = 0$$

$$JF = 6 \text{ kN (T)}$$