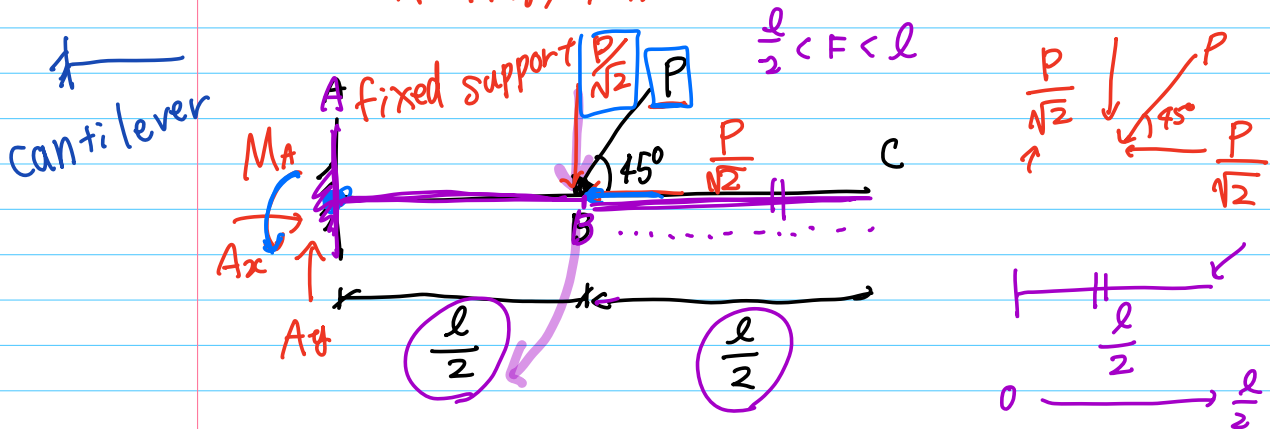


# Week 2 Example question.

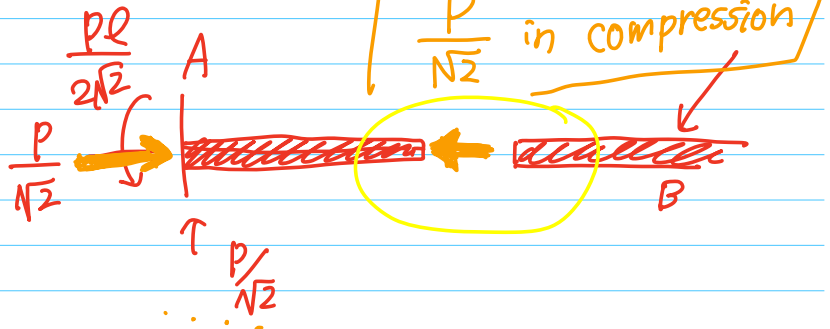
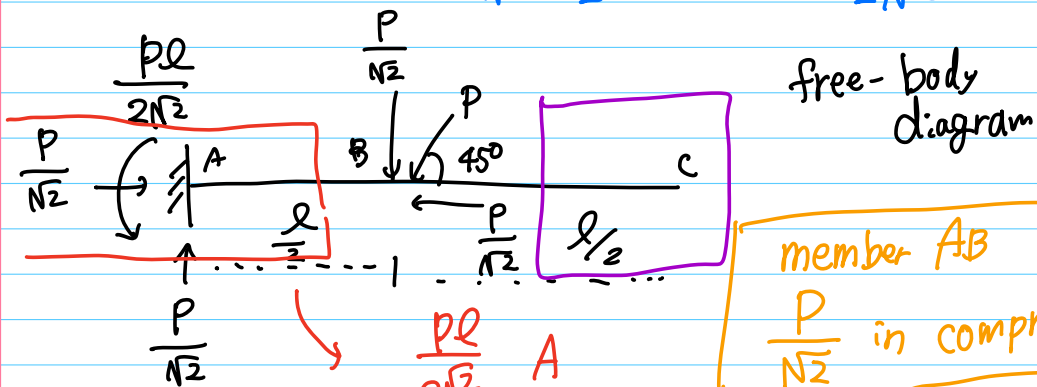
Find the reactions and internal forces at each members.  
 $A_x, A_y, M_A$   $AB$  and  $BC$

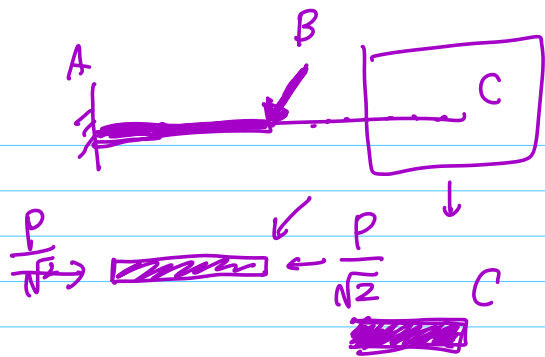


$$\sum F_x = 0 \quad A_x - \frac{P}{\sqrt{2}} = 0 \quad A_x = \frac{P}{\sqrt{2}} \quad 0 < c < \frac{l}{2}$$

$$\sum F_y = 0 \quad A_y - \frac{P}{\sqrt{2}} = 0 \quad A_y = \frac{P}{\sqrt{2}}$$

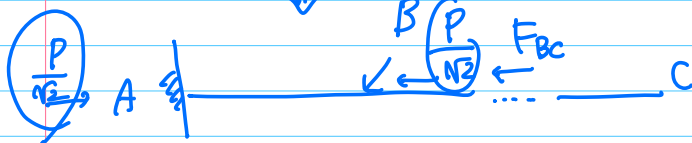
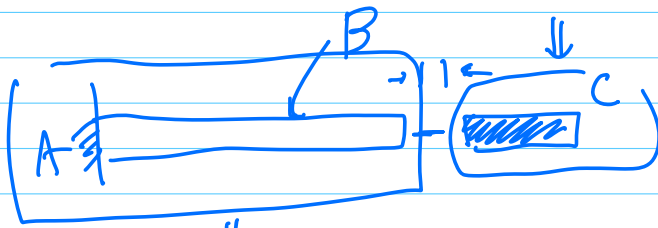
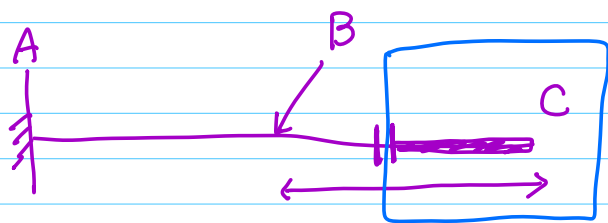
$$\sum M = 0 \quad M_A - \frac{P}{\sqrt{2}} \cdot \frac{l}{2} = 0 \quad M_A = \frac{Pl}{2\sqrt{2}}$$





member BC

On



$$\sum \rightarrow \frac{P}{\sqrt{2}} - \frac{P}{\sqrt{2}} - F_{bc} = 0$$

$$- F_{bc} = 0$$