

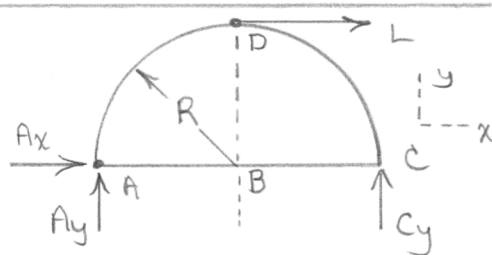
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Entire truss:

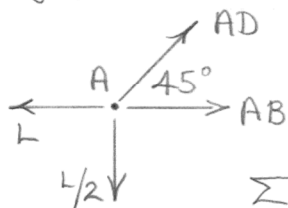
$$\sum F_x = 0: A_x = -L$$

$$\sum M_A = 0: C_y = L/2$$

$$\sum F_y = 0: A_y = -L/2$$



Joint A:



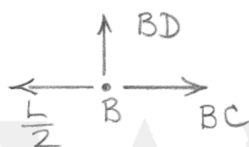
$$\sum F_y = 0: AD \frac{\sqrt{2}}{2} - \frac{L}{2} = 0$$

$$AD = \frac{\sqrt{2}}{2} L$$

$$\sum F_x = 0: -L + \frac{\sqrt{2}}{2} L \left(\frac{\sqrt{2}}{2} \right) + AB = 0$$

$$AB = \frac{L}{2} T$$

Joint B:



$$BC = \frac{L}{2} T$$

$$BD = 0$$

WILEY