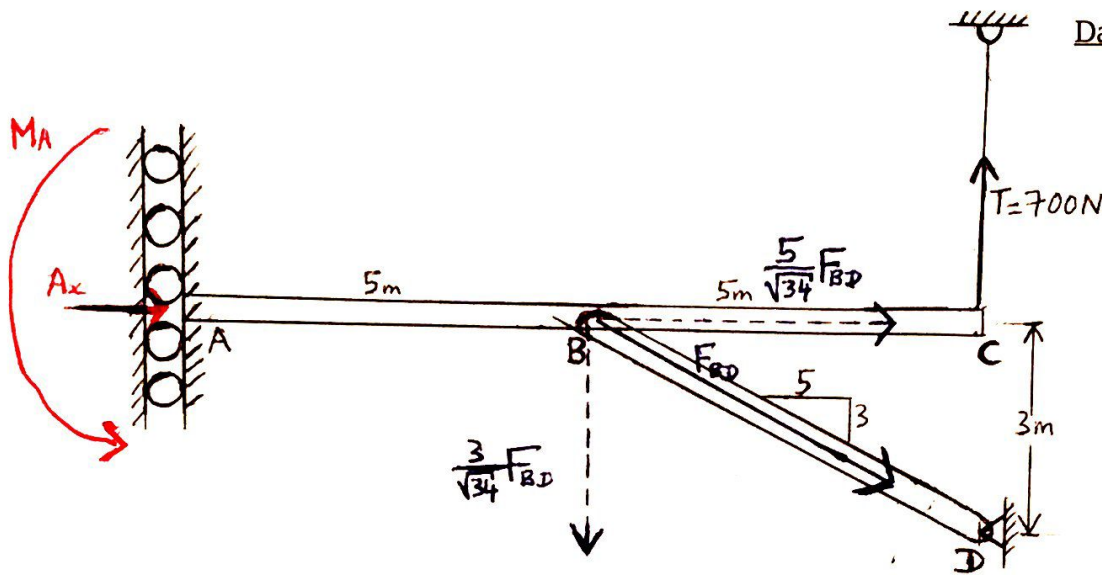


Date: 25th November 2020



$$+\uparrow \sum F_y = 0; \quad T - \frac{3}{\sqrt{34}} F_{BD} = 0 \Rightarrow F_{BD} = \frac{\sqrt{34}}{3} T = \frac{\sqrt{34}}{3} (700\text{N}) = 1,360.555442\text{N}$$

$$F_{BD} = 1.361 \text{ kN}$$

$$+\rightarrow \sum F_x = 0; \quad A_x + \frac{5}{\sqrt{34}} F_{BD} = 0 \Rightarrow A_x = -\frac{5}{\sqrt{34}} F_{BD} = -\frac{5}{\sqrt{34}} (1,360.55\text{N}) = -1,166.662\text{N}$$

$$A_x = 1.167 \text{ kN} \leftarrow$$

$$+\downarrow \sum M_A = 0; \quad \left(-\frac{3}{\sqrt{34}} F_{BD}\right)(5\text{m}) + (700\text{N})(10\text{m}) + M_A = 0$$

$$M_A = -3,500\text{N}\cdot\text{m} = 3.50 \text{ kN}\cdot\text{m} \curvearrowright$$