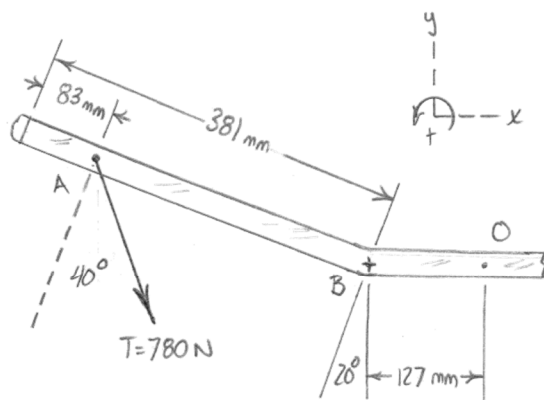


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$$\underline{T} = 780 \sin 20^\circ \underline{i} - 780 \cos 20^\circ \underline{j} \longrightarrow \underline{T} = 267 \underline{i} - 733 \underline{j} \text{ N}$$

$$\underline{M}_B = 780 \cos 40^\circ \left(\frac{381 - 83}{1000} \right) \underline{k} \longrightarrow \underline{M}_B = 178.1 \underline{k} \text{ N}\cdot\text{m}$$

$$\underline{M}_O = \underline{M}_B + T \cos 20^\circ (\overline{OB}) = \left(178.1 + 780 \cos 20^\circ \left(\frac{127}{1000} \right) \right) \underline{k}$$

$$\therefore \underline{M}_O = 271 \underline{k} \text{ N}\cdot\text{m}$$