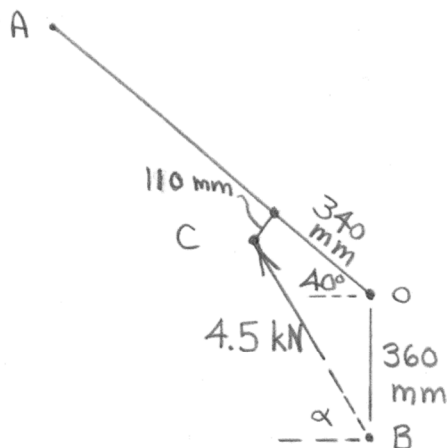


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$$\alpha = \tan^{-1} \left[ \frac{360 + 340 \sin 40^\circ - 110 \sin 50^\circ}{340 \cos 40^\circ + 110 \cos 50^\circ} \right]$$

$$= 56.2^\circ$$

$$+ \curvearrowright M_o = 4.5 (0.360 \cos 56.2^\circ) = \underline{0.902 \text{ kN} \cdot \text{m CW}}$$

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