



The system at O is a couple.

$$\begin{aligned}\sum M &= Fd = 180(100 \sin 45^\circ + 25 + 25) \\ &= 21\,700 \text{ N}\cdot\text{mm} \text{ or } \underline{21.7 \text{ N}\cdot\text{m CCW}}\end{aligned}$$

WILEY