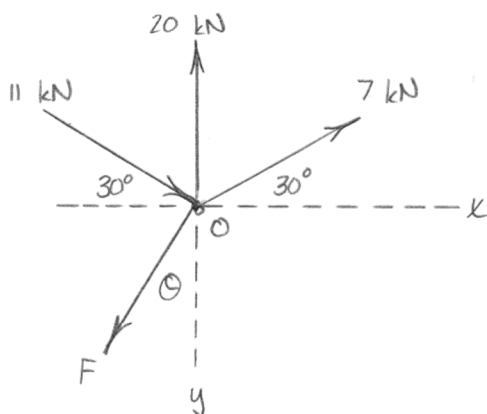


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$R = 9 \text{ kN}$, RIGHTWARD



$$\begin{cases} R_x = 9 = 11 \cos 30^\circ + 7 \cos 30^\circ - F \sin \theta \\ R_y = 0 = 11 \sin 30^\circ - 7 \sin 30^\circ + F \cos \theta - 20 \end{cases}$$

Solving... $F = 19.17 \text{ kN}$ AND $\theta = 20.1^\circ$

WILEY