

2/9

$$F_1 = 800 \text{ N}$$

y

$$F_2 = 425 \text{ N}$$



$$R_x = \sum F_x = 800 \cos 70^\circ - 425 \cos \theta = 0$$

$$\theta = 49.9^\circ$$

$$R_y = \sum F_y = -800 \sin 70^\circ - 425 \sin 49.9^\circ$$

$$= -1077 \text{ N}$$

$$\text{So } \underline{R = 1077 \text{ N}}$$

Meriam Statics 7th Problems

**Dan B. Marghitu, Mihai Dupac, Nels H.
Madsen**



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