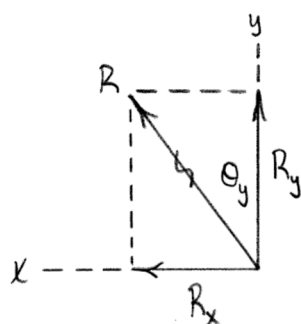


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$$\underline{R} = (175 \cos 40^\circ + 125 \sin 15^\circ) \underline{i} + (175 \sin 40^\circ + 125 \cos 15^\circ) \underline{j}$$

$$\underline{R} = 166.4 \underline{i} + 233 \underline{j} \text{ N}$$



$$\theta_y = \text{TAN}^{-1}\left(\frac{R_x}{R_y}\right) = \text{TAN}^{-1}\left(\frac{166.4}{233}\right)$$

$$\theta_y = 35.5^\circ \text{ CCW OFF } +y\text{-AXIS}$$

WILEY