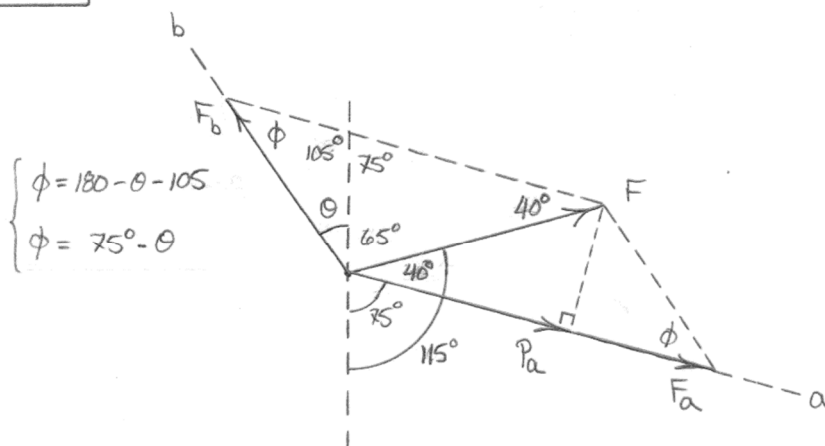


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$$P_a = F \cos 40^\circ \rightarrow 325 = F \cos 40^\circ \rightarrow \underline{F = 424 \text{ N}}$$

$$\left\{ \frac{F}{\sin \phi} = \frac{F_b}{\sin 40^\circ} \rightarrow \frac{424}{\sin(75^\circ - \theta)} = \frac{325}{\sin 40^\circ} \right.$$

SOLVING THIS YIELDS... $\underline{\theta = 17.95^\circ \text{ OR } -48.0^\circ}$

WILEY