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 Problem 2-11 The force F acts on the gear tooth. Resolve this force into two components acting along the lines aa and bb . Given: $F = 20 \text{ lb}$
 $\theta_1 = 80^\circ$ $\theta_2 = 60^\circ$
 Solution: $F \sin 180^\circ \begin{bmatrix} -(\theta_1 + \theta_2) \end{bmatrix}$
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