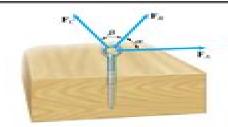
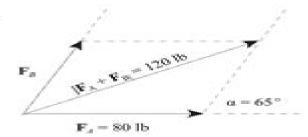
Problem 2.3 The magnitude $|\mathbf{F}_A| = 80 \text{ lb}$ and the angle $\alpha = 65^{\circ}$. The magnitude $|\mathbf{F}_A + \mathbf{F}_B| = 120 \text{ lb}$. Graphically determine the magnitude of \mathbf{F}_B .

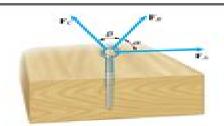


Solution: Accurately draw the vectors and measure the magnitude of \mathbf{F}_{β} .

 $||F_B|| = 62.16$

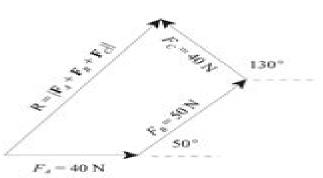


Problem 2.4 The magnitudes $|\mathbf{F}_A| = 40 \text{ N}$, $|\mathbf{F}_B| = 50 \text{ N}$, and $|\mathbf{F}_C| = 40 \text{ N}$. The angle $\alpha = 50^\circ$ and $\beta = 80^\circ$. Graphically determine the magnitude of $\mathbf{F}_A + \mathbf{F}_B + \mathbf{F}_C$.



Solution: Accurately draw the vectors and measure the magnitude of $\mathbf{F}_A + \mathbf{F}_B + \mathbf{F}_C$.

$$E = (F_A + F_B + F_C) = 85 \text{ N}$$



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