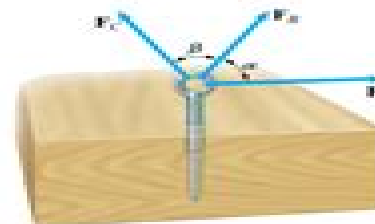




Problem 2.3 The magnitude $|\mathbf{F}_A| = 80 \text{ lb}$ and the angle $\alpha = 65^\circ$. The magnitude $|\mathbf{F}_A + \mathbf{F}_B| = 120 \text{ lb}$. Graphically determine the magnitude of $\mathbf{F}_B$.

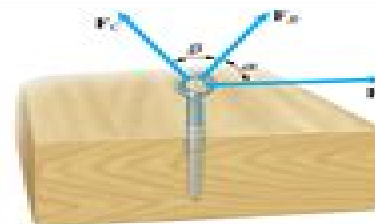


Solution: Accurately draw the vectors and measure the magnitude of $\mathbf{F}_B$.

$$|\mathbf{F}_B| = 62 \text{ lb}$$

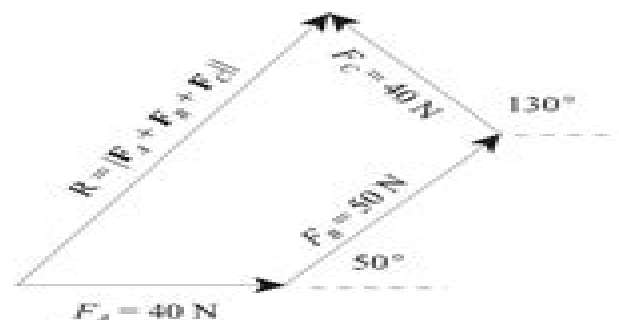


Problem 2.4 The magnitudes $|\mathbf{F}_A| = 40 \text{ N}$, $|\mathbf{F}_B| = 50 \text{ N}$, and $|\mathbf{F}_C| = 40 \text{ N}$. The angle $\alpha = 50^\circ$ and $\beta = 80^\circ$. Graphically determine the magnitude of $\mathbf{F}_A + \mathbf{F}_B + \mathbf{F}_C$.



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

$$|\mathbf{R}| = |\mathbf{F}_A + \mathbf{F}_B + \mathbf{F}_C| = 83 \text{ N}$$



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alte necesită cunoștințe aprofundate din domeniile geometriei algebrei și ale metodelor numerice. Lucrarea este structurată pe zece capitole începând cu introducerea în conceptele de bază ale mecanicii și abordând apoi gradual fiecare aspect specific al staticii: echilibrul punctului material, geometria maselor și centrele de masă, echilibrul solidului rigid, echilibrul sistemelor de puncte materiale și de solide rigide, echilibrul firelor. Pentru a asigura o înțelegere solidă a acestor subiecte, autorii au inclus la începutul lucrării un capitol dedicat calculului vectorial și calculului matriceal cu aplicații în mecanica statică, precum și un capitol care tratează reducerea sistemelor de forțe.

Engineering Mechanics, Statics Bela Imre Sandor, 1983*

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