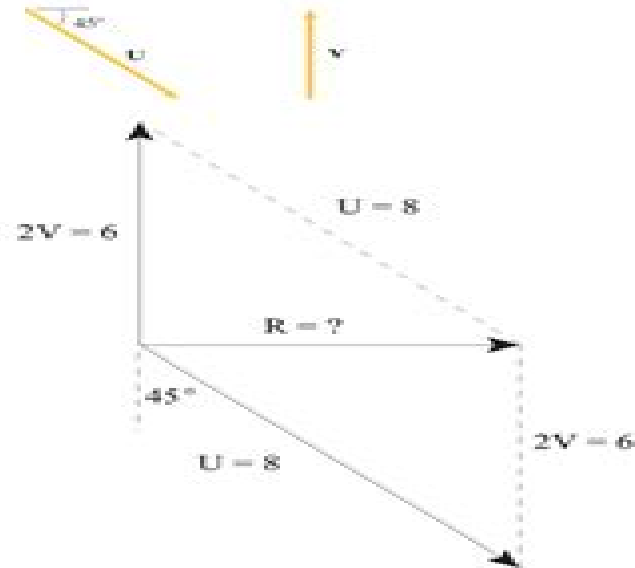


Problem 2.1 In Active Example 2.1, suppose that the vectors $\mathbf{U}$ and $\mathbf{V}$ are reoriented as shown. The vector $\mathbf{V}$ is vertical. The magnitudes are $|\mathbf{U}| = 8$ and $|\mathbf{V}| = 3$. Graphically determine the magnitude of the vector $\mathbf{U} + 2\mathbf{V}$.

Solution: Draw the vectors accurately and measure the resultant.

$$R = |\mathbf{U} + 2\mathbf{V}| = 5.7 \quad \boxed{R = 5.7}$$

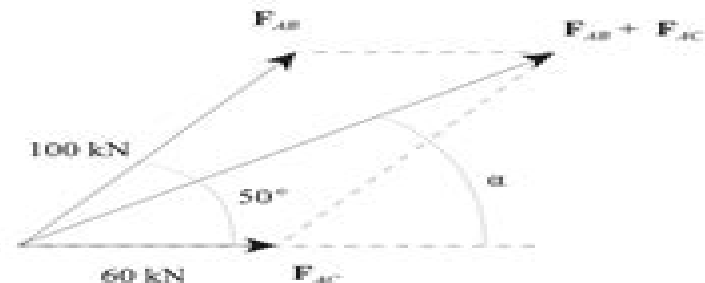


Problem 2.2 Suppose that the pylon in Example 2.2 is moved closer to the stadium so that the angle between the forces $\mathbf{F}_{AB}$ and $\mathbf{F}_{AC}$ is 50° . Draw a sketch of the new situation. The magnitudes of the forces are $|\mathbf{F}_{AB}| = 100$ kN and $|\mathbf{F}_{AC}| = 60$ kN. Graphically determine the magnitude and direction of the sum of the forces exerted on the pylon by the cables.

Solution: Accurately draw the vectors and measure the magnitude and direction of the resultant.

$$|\mathbf{F}_{AB} + \mathbf{F}_{AC}| = 146 \text{ kN}$$

$$\alpha = 32^\circ$$



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