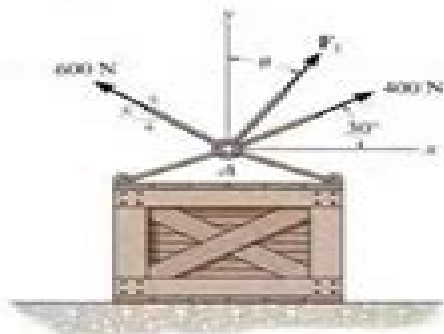


2-39. Determine the magnitude of \mathbf{F}_1 and its direction θ so that the resultant force is directed vertically upward and has a magnitude of 800 N.

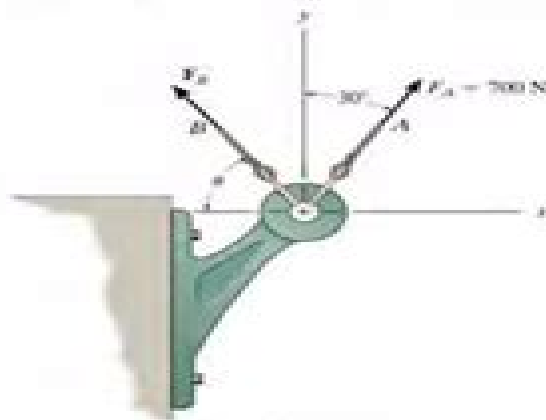
2-40. Determine the magnitude and direction measured counterclockwise from the positive x axis of the resultant force of the three forces acting on the ring A . Take $F_1 = 500$ N and $\theta = 20^\circ$.



Probs. 2-39/40

2-41. Determine the magnitude and direction θ of \mathbf{F}_B so that the resultant force is directed along the positive y axis and has a magnitude of 1500 N.

2-42. Determine the magnitude and angle measured counterclockwise from the positive y axis of the resultant force acting on the bracket if $F_B = 600$ N and $\theta = 20^\circ$.

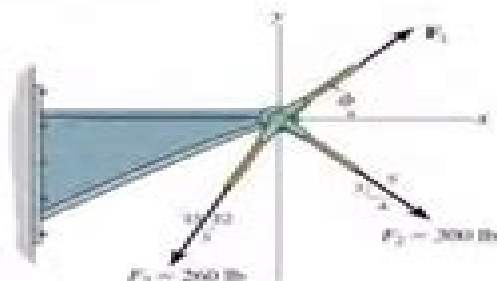


Probs. 2-41/42

2-43. If $\phi = 30^\circ$ and $F_1 = 250$ lb, determine the magnitude of the resultant force acting on the bracket and its direction measured clockwise from the positive x axis.

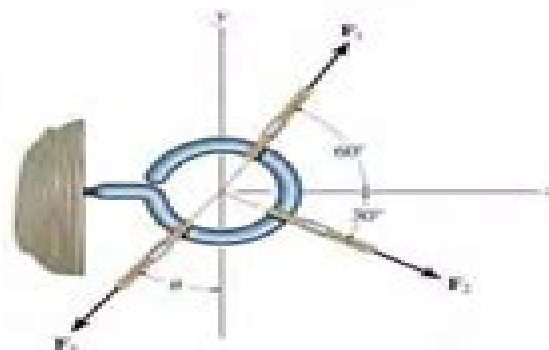
2-44. If the magnitude of the resultant force acting on the bracket is 400 lb directed along the positive x axis, determine the magnitude of \mathbf{F}_1 and its direction ϕ .

2-45. If the resultant force acting on the bracket is to be directed along the positive x axis and the magnitude of \mathbf{F}_1 is required to be a minimum, determine the magnitudes of the resultant force and \mathbf{F}_1 .



Probs. 2-43/44/45

2-46. The three concurrent forces acting on the screw eye produce a resultant force $\mathbf{F}_R = 0$. If $F_2 = \frac{1}{2} F_1$ and \mathbf{F}_1 is to be 90° from \mathbf{F}_2 as shown, determine the required magnitude of \mathbf{F}_3 expressed in terms of F_1 and the angle θ .



Prob. 2-46

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