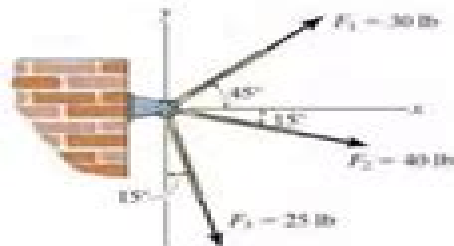


## PROBLEMS

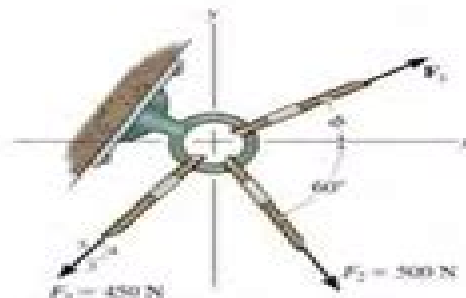
•2-32. Determine the magnitude of the resultant force acting on the pin and its direction measured clockwise from the positive  $x$  axis.



Prob. 2-32

•2-33. If  $F_1 = 600$  N and  $\phi = 30^\circ$ , determine the magnitude of the resultant force acting on the eyebolt and its direction measured clockwise from the positive  $x$  axis.

2-34. If the magnitude of the resultant force acting on the eyebolt is 600 N and its direction measured clockwise from the positive  $x$  axis is  $\theta = 30^\circ$ , determine the magnitude of  $F_1$  and the angle  $\phi$ .



Probs. 2-33/34

2-35. The contact point between the femur and tibia bones of the leg is at  $A$ . If a vertical force of 175 lb is applied at this point, determine the components along the  $x$  and  $y$  axes. Note that the  $y$  component represents the normal force on the load-bearing region of the bones. Both the  $x$  and  $y$  components of this force cause synovial fluid to be squeezed out of the bearing space.

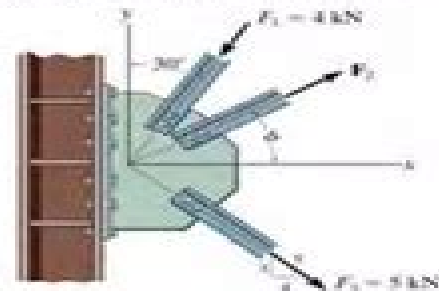


Prob. 2-35

•2-36. If  $\phi = 30^\circ$  and  $F_2 = 3$  kN, determine the magnitude of the resultant force acting on the plate and its direction  $\theta$  measured clockwise from the positive  $x$  axis.

•2-37. If the magnitude for the resultant force acting on the plate is required to be 6 kN and its direction measured clockwise from the positive  $x$  axis is  $\theta = 30^\circ$ , determine the magnitude of  $F_2$  and its direction  $\phi$ .

2-38. If  $\phi = 30^\circ$  and the resultant force acting on the gusset plate is directed along the positive  $x$  axis, determine the magnitudes of  $F_2$  and the resultant force.



Probs. 2-36/37/38

# Engineering Mechanics Statics 12th Edition For Ipad

**Robert R. Redfield**



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