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2–2. If θ = 60° and T = 5 kN, determine the magnitude of the resultant force acting on the eyeboft and its direction measured clockwise from the positive x axis.



The parallelogram law of addition and the triangular rule are shown in Figs. a and b, respectively.

Applying the law of cosines to Fig. b.

$$F_R = \sqrt{5^2 + 8^2 - 2(5)(8)\cos 105^\circ}$$
  
= 10.47 kN = 10.5 kN

Acres.

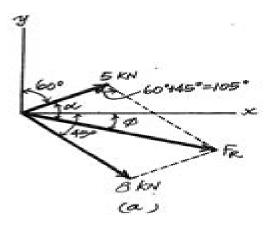
Applying the law of sines to Fig. è and using this result, yields

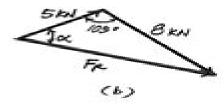
$$\alpha = 47.54^{\circ}$$

Thus, the direction angle  $\phi$  of  $F_R$  measured clockwise from the positive x axis is

$$\phi = \alpha - 30^{\circ} = 47.54^{\circ} - 30^{\circ} = 17.5^{\circ}$$

Acres.





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**Andrew Pytel** 

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