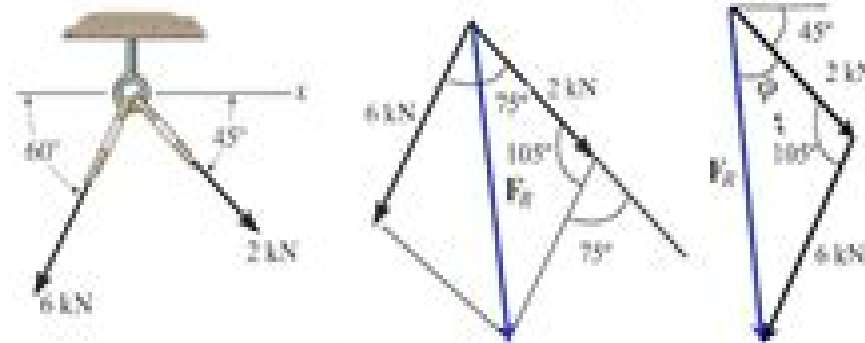


Resultant Force

Determine the magnitude of the resultant force and its direction measured clockwise from the positive x axis.



$$F_R = \sqrt{(2 \text{ kN})^2 + (6 \text{ kN})^2 - 2(2 \text{ kN})(6 \text{ kN}) \cos 105^\circ}$$
$$= 6.798 \text{ kN} = \underline{6.80 \text{ kN}}$$

$$\frac{\sin \phi}{6 \text{ kN}} = \frac{\sin 105^\circ}{6.798 \text{ kN}}, \quad \phi = 58.49^\circ$$



00:41 / 00:58

Chapter 2: Vector Mechanics for Engineers



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