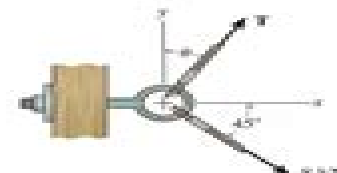


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2-3. If the magnitude of the resultant force is to be 9 kN directed along the positive  $x$  axis, determine the magnitude of force  $T$  acting on the eyebolt and its angle  $\theta$ .



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

Applying the law of cosines to Fig.  $b$ ,

$$T = \sqrt{8^2 + 9^2 - 2(8)(9)\cos 45^\circ} \\ = 6.571 \text{ kN} = 6.57 \text{ kN}$$

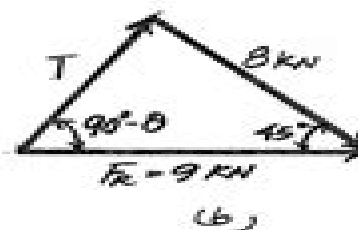
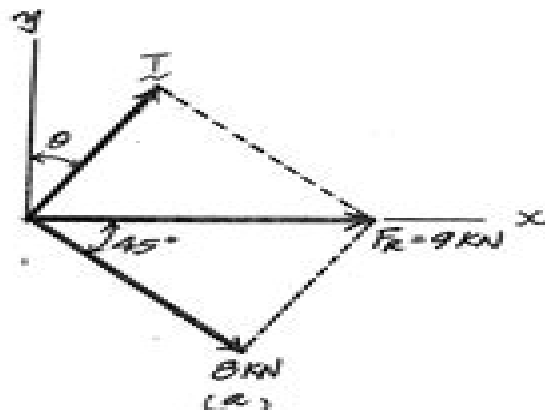
Ans.

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

$$\frac{\sin(90^\circ - \theta)}{8} = \frac{\sin 45^\circ}{6.571}$$

$$\theta = 30.6^\circ$$

Ans.



# Statics Hibbeler 12e Solutions Manual

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