

Solution Manual for Engineering Mechanics Statics 4th Edition by Pytel Kiusalaas ISBN 1305501608 9781305501607

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Chapter 2

2.1

The resultant of each force system is 500 N \rightarrow

Each resultant force has the same line of action as the the force in (a), except (f) and (h)

Therefore (b), (c), (d), (e) and (g) are equivalent to (a) \rightarrow

2.2

$$R_x = \Sigma F_x : \rightarrow \quad R_x = 300 \cos 70^\circ + 150 \cos 20^\circ = 243.6 \text{ lb}$$

$$R_y = \Sigma F_y : \uparrow \quad R_y = 300 \sin 70^\circ + 150 \sin 20^\circ = 333.2 \text{ lb}$$

$$R = \sqrt{R_x^2 + R_y^2} = \sqrt{243.6^2 + 333.2^2} = 413 \text{ lb}$$

$$\theta = \tan^{-1} \left(\frac{333.2}{243.6} \right) = 53.8^\circ$$



2.3

$$\begin{aligned} R_x &= F_x = T_1 \cos 60^\circ + T_2 \cos 40^\circ \\ &= 110 \cos 60^\circ + 150 \cos 40^\circ = 59.91 \text{ lb} \end{aligned}$$

$$\begin{aligned} R_y &= F_y = T_1 \sin 60^\circ + T_2 + T_3 \sin 40^\circ \\ &= 110 \sin 60^\circ + 40 + 150 \sin 40^\circ = 231.7 \text{ lb} \end{aligned}$$

$$\begin{aligned} R &= \sqrt{59.91^2 + 231.7^2} = 239 \text{ lb} \quad \swarrow \\ &= \tan^{-1} \frac{231.7}{59.91} = 75.5^\circ \quad \swarrow \end{aligned}$$



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