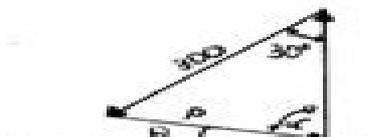
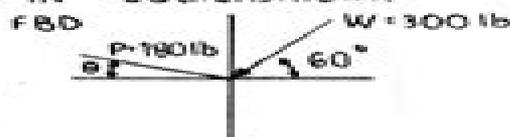


311. IF THE VALUE OF P IN FIG. P-310 IS 180 LB, DETERMINE THE ANGLE θ AT WHICH IT MUST BE INCLINED WITH THE SMOOTH PLANE TO HOLD THE 300-LB BOX IN EQUILIBRIUM.



SOLUTION:

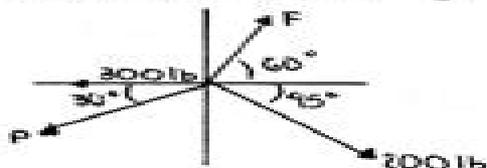
$$\frac{300}{\sin \angle} = \frac{180}{\sin 30^\circ} \rightarrow 300 \sin 30^\circ = 180 \sin \angle$$

$$\sin \angle = \frac{300 \sin 30^\circ}{180} = \frac{5}{6} ; \angle = \sin^{-1} \frac{5}{6}$$

$$\angle = 56.44^\circ$$

$$\theta = 90^\circ - 56.44^\circ = \boxed{33.56^\circ}$$

312. DETERMINE THE MAGNITUDE OF P AND F NECESSARY TO KEEP THE CONCURRENT FORCE SYSTEM, SHOWN IN P-312 IN EQUILIBRIUM.



$$\sum F_y = 0$$

$$300 \sin 60^\circ + P \sin 30^\circ - 200 \sin 105^\circ = 0$$

$$\frac{P \sin 30^\circ}{\sin 30^\circ} = \frac{200 \sin 105^\circ - 300 \sin 60^\circ}{\sin 30^\circ}$$

$$P = \frac{200 \sin 105^\circ - 300 \sin 60^\circ}{\sin 30^\circ}$$

$$\boxed{P = -133.245 \text{ lb}}$$

$$\sum F_x = 0$$

$$F - 300 \cos 60^\circ - P \cos 30^\circ + 200 \cos 105^\circ = 0$$

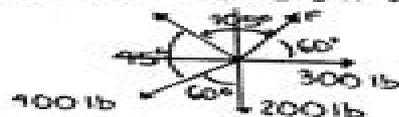
$$F - 300 \cos 60^\circ - (-133.245) \cos 30^\circ + 200 \cos 105^\circ = 0$$

$$F - 300 \cos 60^\circ + 133.245 \cos 30^\circ + 200 \cos 105^\circ = 0$$

$$F - 300 \cos 60^\circ - 133.245 \cos 30^\circ - 200 \cos 105^\circ$$

$$\boxed{F = 86.37 \text{ lb}}$$

313. FIG. 313 REPRESENTS THE CONCURRENT FORCE SYSTEM ACTING AT A JOINT OF A BRIDGE TRUSS. DETERMINE THE VALUES OF P AND E TO MAINTAIN EQUILIBRIUM OF FORCES.



FBD



$\sum F_y$

$$\sum F_y = 0$$

$$300 \sin 15^\circ + F \sin 75^\circ - 400 \sin 45^\circ - 200 \sin 105^\circ = 0$$

$$\frac{F \sin 75^\circ}{\sin 75^\circ} = \frac{300 \sin 15^\circ + 400 \sin 45^\circ + 200 \sin 105^\circ}{\sin 75^\circ}$$

$$F = \frac{300 \sin 15^\circ + 400 \sin 45^\circ + 200 \sin 105^\circ}{\sin 75^\circ}$$

$$\boxed{F = 412.436 \text{ lb}}$$

$$\sum F_x = 0$$

$$-P - 400 \cos 45^\circ + 200 \cos 75^\circ +$$

$$300 \cos 75^\circ + F \cos 75^\circ = 0$$

$$P = -400 \cos 45^\circ + 200 \cos 75^\circ +$$

$$300 \cos 75^\circ + F \cos 75^\circ$$

$$\boxed{P = 165.495 \text{ lb}}$$

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