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From a free-body diagram of the lower portion of the crutch (between section *a* and the bottom *B*), the equations of equilibrium give

$$\sum F_x = 0: \quad V - 35 \sin 25^\circ = 0$$

$$\sum F_y = 0: \quad P + 35 \cos 25^\circ = 0$$

$$\sum M_{cut} = 0: \quad -M - 2(35 \sin 25^\circ) = 0$$

$$P = -31.7 \text{ lb} = 31.7 \text{ lb (C)} \quad \text{Ans.}$$

$$V = 14.79 \text{ lb} \quad \text{Ans.}$$

$$M = 29.6 \text{ lb} \cdot \text{ft} \quad \text{Ans.}$$

