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From a free-body diagram of the beam, the equilibrium equations are solved to get the forces

$$\rightarrow \Sigma F_x = 0: \quad A_x = 0$$

$$\curvearrowright \Sigma M_A = 0: \quad 15B - 3(500) - 6(800) - 9(700) - 12(400) = 0$$

$$B = 1160 \text{ lb}$$

$$\uparrow \Sigma F_y = 0: \quad A_y + B - 500 - 800 - 700 - 400 = 0$$

$$A_y = 1240 \text{ lb}$$

$$\mathbf{A} = 1240 \text{ lb } \uparrow \dots\dots\dots \mathbf{Ans.}$$

$$\mathbf{B} = 1160 \text{ lb } \uparrow \dots\dots\dots \mathbf{Ans.}$$

