

PROBLEM 2.36

Knowing that the tension in cable BC is 725 N , determine the resultant of the three forces exerted at Point B of beam AB .

SOLUTION

Cable BC Force:

$$F_x = -(725\text{ N}) \frac{840}{1160} = -525\text{ N}$$

$$F_y = (725\text{ N}) \frac{840}{1160} = 500\text{ N}$$

500-N Force:

$$F_x = -(500\text{ N}) \frac{3}{5} = -300\text{ N}$$

$$F_y = -(500\text{ N}) \frac{4}{5} = -400\text{ N}$$

780-N Force:

$$F_x = (780\text{ N}) \frac{12}{13} = 720\text{ N}$$

$$F_y = -(780\text{ N}) \frac{5}{13} = -300\text{ N}$$

and

$$R_x = \Sigma F_x = -105\text{ N}$$

$$R_y = \Sigma F_y = -200\text{ N}$$

$$R = \sqrt{(-105\text{ N})^2 + (-200\text{ N})^2}$$

$$= 225.89\text{ N}$$

Further:

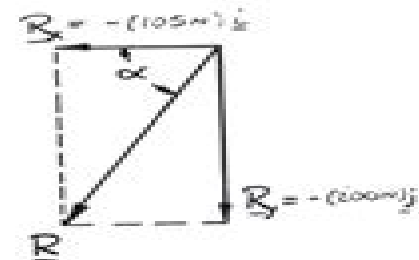
$$\tan \alpha = \frac{200}{105}$$

$$\alpha = \tan^{-1} \frac{200}{105}$$

$$= 62.3^\circ$$

Thus:

$$\mathbf{R} = 226\text{ N} \nearrow 62.3^\circ$$



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