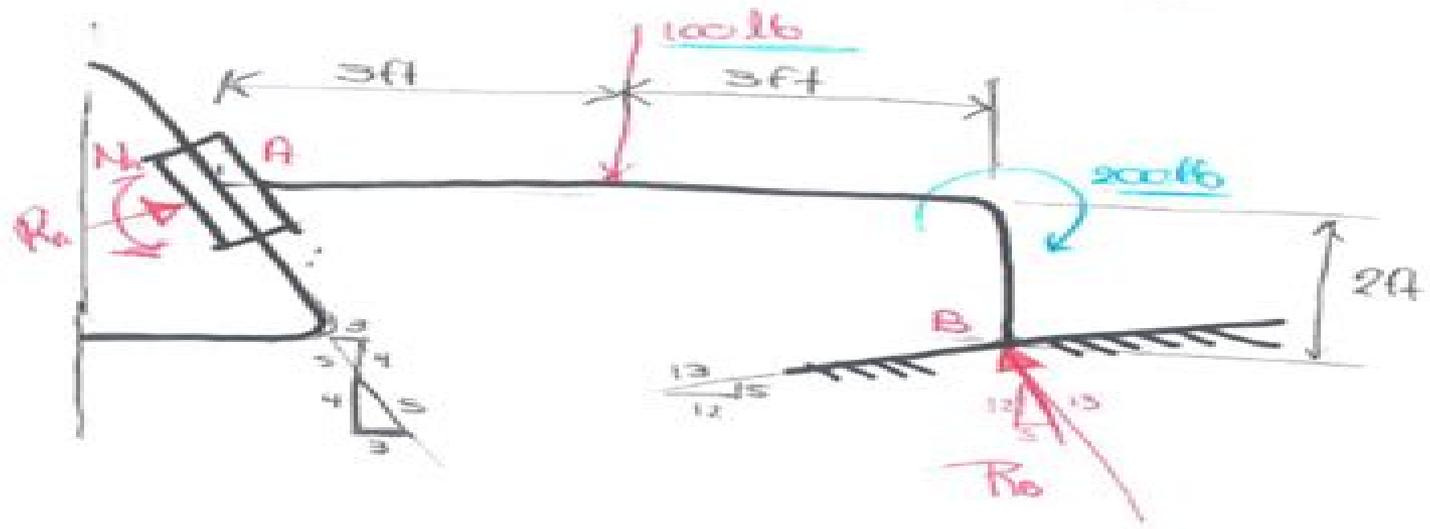
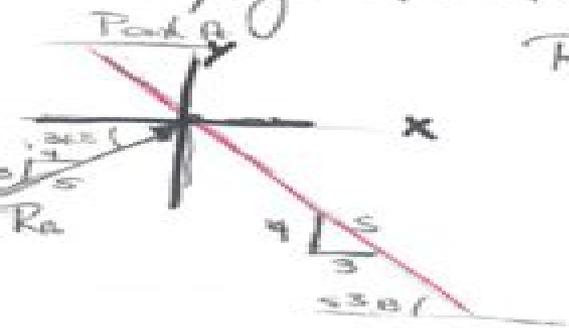


5-25. Determine the reactions on the bent rod which is supported by smooth surface at B and by a collar at A, which is fixed to the rod and is free to slide over the fixed inclined rod.

(1)
1-2



The direction of reactions are assumed.
Analyzing the point A and B.



$$R_A = \frac{4}{5} R_{Ax} + \frac{3}{5} R_{Ay} \dots (1)$$

$$\rightarrow \sum F_x = 0$$

$$\frac{4}{5} R_A - \frac{5}{13} R_B = 0 \dots (2)$$

$$\uparrow \sum F_y = 0$$

$$\frac{3}{5} R_A + \frac{12}{13} R_B = 100 \text{ lb} \dots (3)$$

$$R_A = \frac{5}{4} \left(\frac{5}{13} R_B \right) \therefore R_A = \frac{25}{52} R_B \dots (4)$$

Substituting R_A into eq. (3)

$$R_B = \frac{5}{13} R_{Bx} + \frac{12}{13} R_{By} \quad \frac{3}{5} \left(\frac{25}{52} R_B \right) + \frac{12}{13} R_B = 100 \text{ lb}$$

$$\frac{75}{260} R_B + \frac{12}{13} R_B = 100 \text{ lb}$$

$$R_B = \frac{100}{1.2} \therefore R_B = 83.33 \text{ lb}$$

Point B.



Engineering Mechanics Statics Chapter 5

TD Snyder



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