



$$\begin{cases} \sum M_G = 0: M - 0.3(N_A + N_B) \cdot 0.2 = 0 & (1) \\ \sum F_x = 0: N_B \sin 30^\circ + 0.3 N_B \cos 30^\circ - N_A = 0 & (2) \\ \sum F_y = 0: N_B \cos 30^\circ - 0.3 N_B \sin 30^\circ - 30(9.81) + 0.3 N_A = 0 & (3) \end{cases}$$

Solution of Eqs. (1)-(3):

$$\begin{cases} N_B = 312 \text{ N} \\ N_A = 237 \text{ N} \\ M = 32.9 \text{ N}\cdot\text{m} \end{cases}$$

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