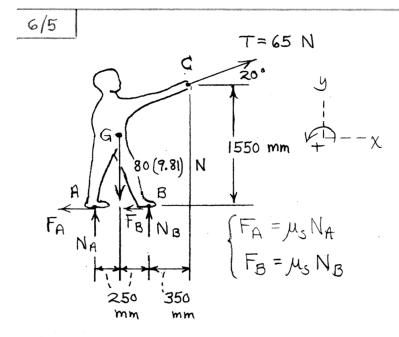
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$$\sum F_{\chi} = 0 : -\mu_{s} (N_{A} + N_{B}) + 65 \cos 20^{\circ} = 0$$

$$\sum F_{y} = 0 : N_{A} + N_{B} - 80(9.81) + 65 \sin 20^{\circ} = 0$$

$$\sum M_{B} = 0 : 80(9.81)(250) - N_{A}(500) - 65[1550 \cos 20^{\circ} - 350 \sin 20^{\circ}] = 0$$
Solve to obtain $N_{A} = 219 N$, $N_{B} = 544 N$

$$M_{S} = 0.0801$$