

Forces – Q1 [Practice/E](2/6/21)

If a block of mass m is resting on a surface, prove that the reaction force of the block on the surface is mg .

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Solution

Let R be the reaction force of the block on the surface.

By N3L, the reaction force of the surface on the block is also R .

Applying N2L to the block, $mg - R = 0$, so that $R = mg$.