

QUESTION 2 (Start on a new page)

A 5 kg block is resting on a rough table as shown in the diagram below. The 5 kg block is connected to a suspended 2 kg block by a light inextensible string over a frictionless pulley. The coefficient of kinetic friction between the table and the 5 kg block is 0,5.

A 60 N force is applied at an angle of 10° to the horizontal which causes the block to accelerate to the LEFT.



- 2.1 Define Newton's second law of motion. (2)
- 2.2 Draw a free body diagram of all the forces acting on the 5kg block. (5)
- 2.3 Calculate the normal force acting on the 5 kg block. (3)
- 2.4 Calculate the acceleration of the system. (6)

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