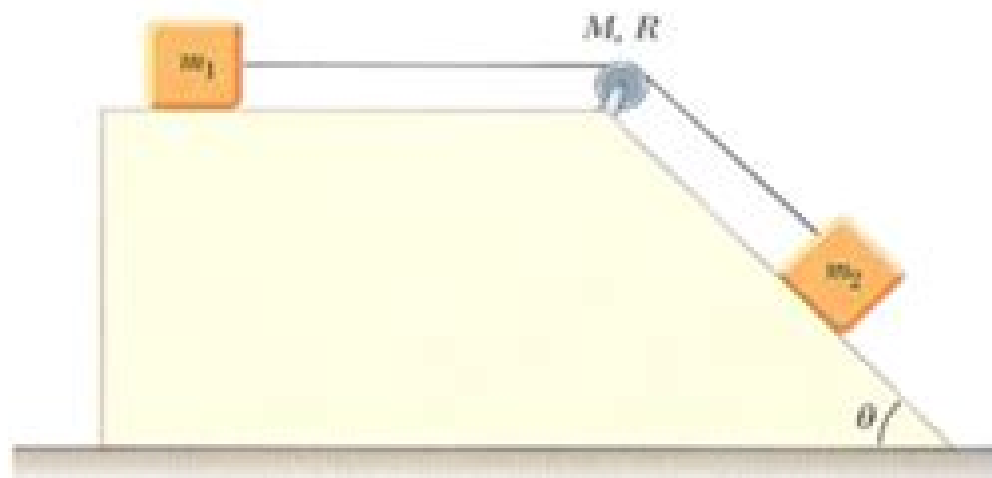


A block of mass  $m_1 = 2.45$  kg and a block of mass  $m_2 = 5.80$  kg are connected by a massless string over a pulley in the shape of a solid disk having radius  $R = 0.250$  m and mass  $M = 10.0$  kg. The fixed, wedge-shaped ramp makes an angle of  $\theta = 30.0^\circ$  as shown in the figure. The coefficient of kinetic friction is 0.360 for both blocks.



(b) Determine the acceleration of the two blocks. (Enter the magnitude of the acceleration.)

m/s<sup>2</sup>

(c) Determine the tensions in the string on both sides of the pulley.

left of the pulley  N

right of the pulley  N

# Hard Physics Problems With Answers

**Jiyuan Zhang**



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