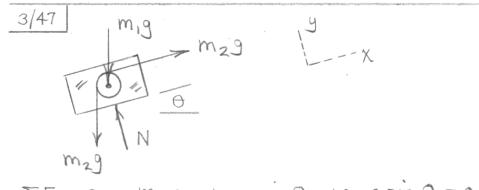
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$$\Sigma F_{\chi} = 0: \quad m_{2}g - m_{1}g\sin\theta - m_{2}g\sin\theta = 0$$

$$m_{2} = \frac{m_{1}\sin\theta}{1 - \sin\theta}$$

$$\theta = 15^{\circ}$$
: $m_2 = 0.349 m_1$

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