

 $M_2g-M_1N=m_1a+m_2a$ $m_2g - u_1 N = a(m, + m_2)$ $a = \frac{m_2 g - u_1 N}{m_1 + m_2} = \frac{m_2 g - u_1 m_1 g}{m_1 + m_2} = \frac{g(m_2 - u_1 m_1)}{m_1 + m_2}$ $a = \frac{(9.8 \text{ W/s}^2) \left[12.6 \text{ hy} - (.35)(28 \text{ hy})\right]}{40.6 \text{ hy}}$ |a = .68 m/s'|