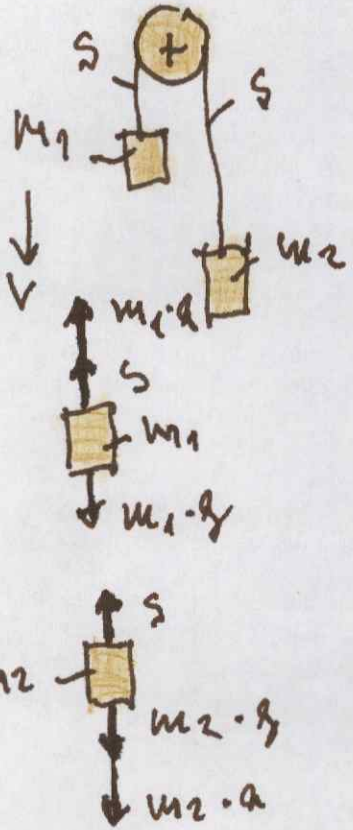
- Fallmaschine -



$m_1 = 2\,kg$

$a_1 = 0{,}5\,m/s^2$

$S = ?$

$m_2 = ?$

$S + m_1 \cdot g - m_1 \cdot g = 0$

$S = m_1 (g - a) = 18{,}62\,N$

$S - m_2 \cdot g - m_2 \cdot a = 0$

$m_2 (g + a) = S$

$S = m_2 \cdot g + m_2 \cdot g$

$m_2 = \frac{18{,}62\,N \cdot s^2}{10{,}31\,m} = 1{,}81\,kg$

17.10.2022

Irrtum vorbehalten