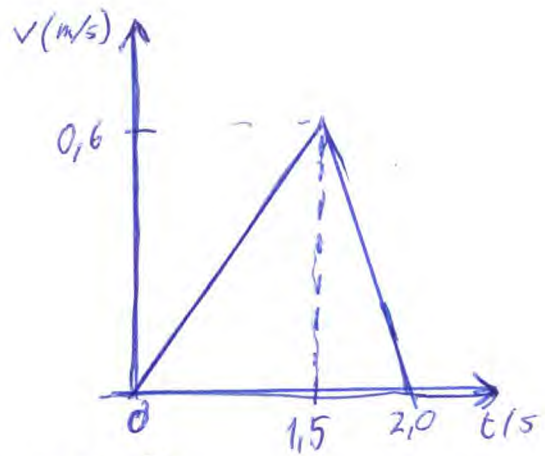
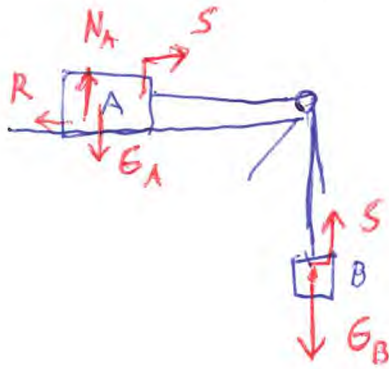


13.06



$$a) \quad a_1 = \frac{\Delta v}{\Delta t} = \frac{0,6 - 0}{1,5 - 0} \frac{m}{s^2} = \underline{0,40 \frac{m}{s^2}}$$

$$a_2 = \frac{\Delta v}{\Delta t} = \frac{0 - 0,6}{2,0 - 1,5} \frac{m}{s^2} = \frac{-0,6}{0,5} \frac{m}{s^2} = \underline{-1,2 \frac{m}{s^2}}$$

$$b) \quad \mu = \frac{R}{N} = \frac{R}{G_A}$$

$$= \frac{-m_A a_2}{m_A g} = \frac{-(-1,2) \frac{m}{s^2}}{9,81 \frac{m}{s^2}}$$

$$= \underline{0,12} \quad (0,1223)$$

$$\Sigma F = m_A a_1$$

$$-R = m_A a_2$$

$$R = -m_A a_2$$

$$c) \quad \Sigma F = m_A a_1$$

$$S - R = m_A a_1$$

$$S = \mu N + m_A a_1$$

$$S = \mu m_A g + m_A a_1$$

$$S = m_A (\mu g + a_1)$$

$$S = 2,6 \text{ kg} \cdot (0,1223 \cdot 9,81 + 0,40) \frac{N}{kg}$$

$$= \underline{4,2 \text{ N}}$$