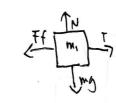


11: 72

$$h = 0.2$$

$$m_1 = 5 kg$$

$$m_2 = 10 kg$$



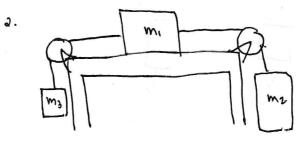


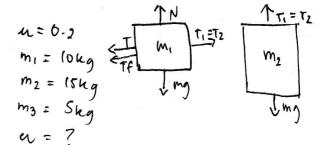
$$0.2N + m_1 \alpha = m_2 g - m_2 \alpha$$

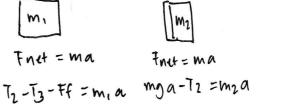
$$\frac{\alpha \left(m_1 + m_2\right) = m_2 g - 0.2 N}{\left(m_1 + m_2\right)}$$

$$q = \frac{m_2 q - 0.2N}{m_1 + m_2}$$

13kg







Ff = WN

$$t_{n+1} = ma$$
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$$7_2 - 7_3 - ff = m_1 a$$

 $(m_2 g - m_2 a) - (m_3 a + m_3 g) - MN = m_1 a$
 $m_2 g - m_2 a - m_3 a - m_3 g - MN = m_1 a$
 $m_2 g - m_3 g - MN = m_1 a + m_2 a + m_3 a$
 $m_2 g - m_3 g - MN = a (m_1 + m_2 + m_3)$
 $m_1 + m_2 + m_3$
 $a = m_2 g - m_3 g - MN$
 $m_1 + m_2 + m_3$

$$a = 15 \text{ kg} \left(9.81 \text{ m/s}^2 \right) - 5 \text{ kg} \left(9.61 \text{ m/s}^2 \right) - (0.2) \left(98.1 \text{ kgm/s}^2 \right)$$

$$= 147.15 \text{ kg mls}^2 - 49.05 \text{ kg m/s}^2 - 19.62 \text{ kg m/s}^2$$

$$= 30 \text{ kg}$$

$$= 78.48 \text{ kg m/s}^2$$

$$= 30 \text{ kg}$$