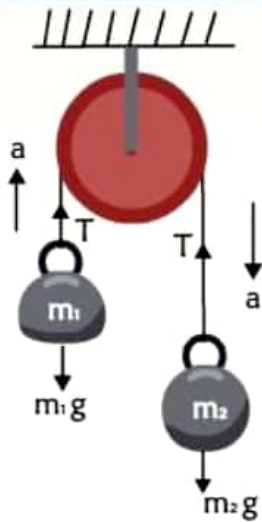


# PULLEY BLOCK SYSTEM

1

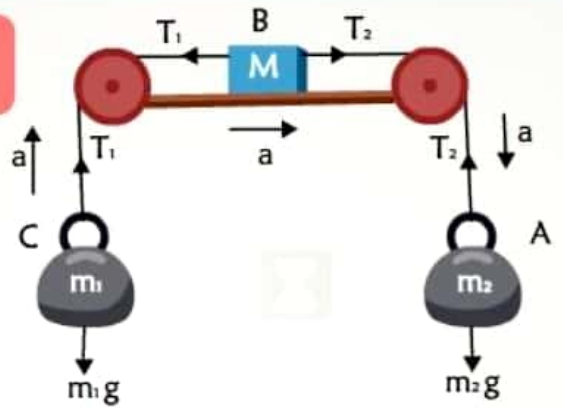


$$m_2 > m_1$$

$$m_2 g - T = m_2 a$$

$$T - m_1 g = m_1 a$$

2

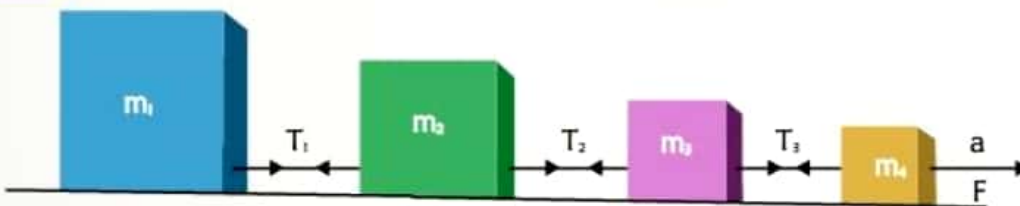


$$\text{For body A, } m_2 g - T = m_2 a$$

$$\text{For body B, } T_2 - T_1 = M a$$

$$\text{For body C, } T_1 - m_1 g = m_1 a$$

3



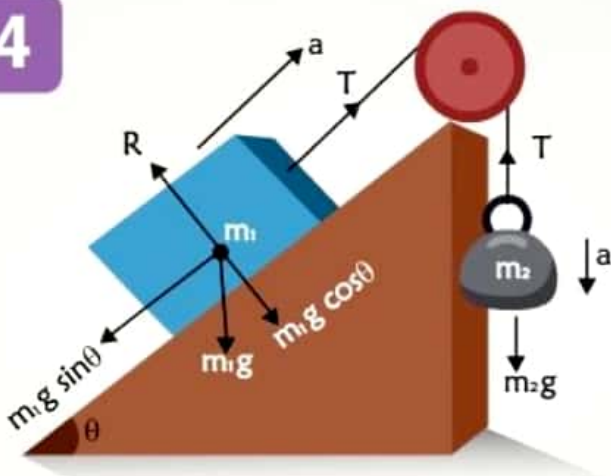
$$a = \frac{F}{(m_1 + m_2 + m_3 + m_4)}$$

$$T_3 = (m_1 + m_2 + m_3) a$$

$$T_2 = (m_1 + m_2) a$$

$$T_1 = m_1 a$$

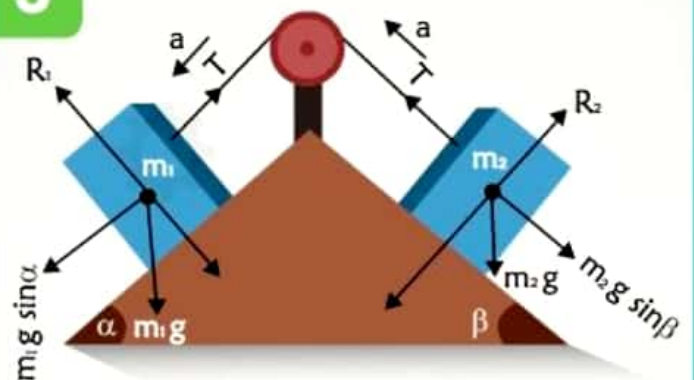
4



$$m_2 g - T = m_2 a$$

$$T - m_1 g \sin \theta = m_1 a$$

5



$$m_1 g \sin \alpha - T = m_1 a$$

$$T - m_2 g \sin \beta = m_2 a$$