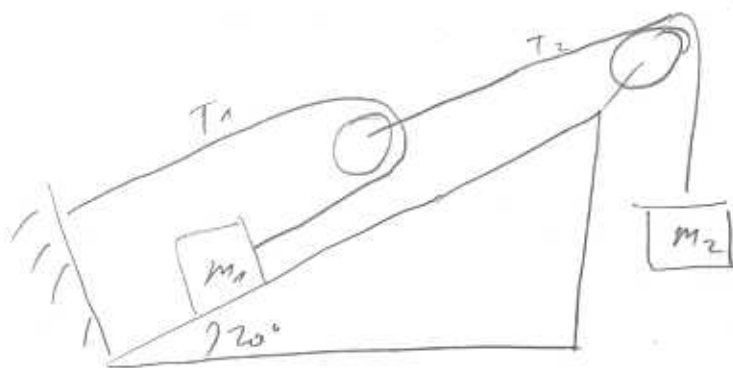
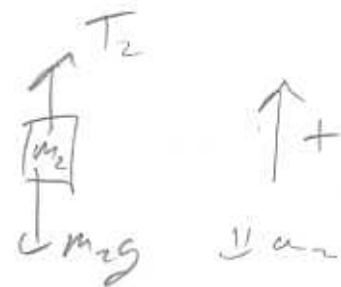


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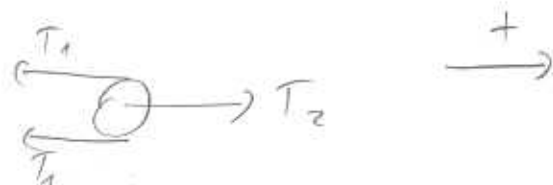


m_2 \rightarrow \downarrow

$$T_2 - m_2 g = m_2 a_2$$



rope \rightarrow \rightarrow



$$T_2 - 2T_1 = 0 \cdot a$$

$$T_2 = 2T_1$$

m_1 \rightarrow \rightarrow



$$T_1 - m_1 g \sin 20^\circ = m_1 a_1$$

rope \rightarrow \rightarrow m_2

rope \rightarrow \rightarrow m_1 \rightarrow \rightarrow m_2

$$a_1 = -2a_2$$

$$2T_1 - m_2 g = m_2 a_2$$

$$T_1 - m_1 g \sin 20^\circ = -2m_1 a_2$$

$$-4m_1 a_2 - 2m_1 g \sin 20^\circ - m_2 g = m_2 a_2$$

$$a_2 = -g \frac{m_1 \sin 20^\circ + m_2}{m_2 + 4m_1}$$