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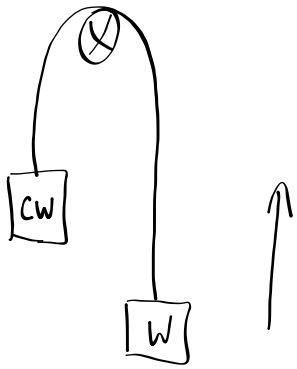
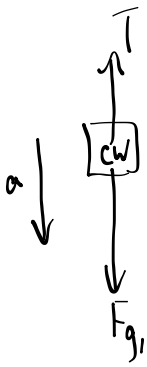
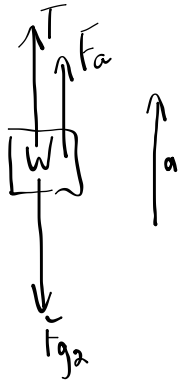
22.







$\vec{F}_{net} = m\vec{a}$

$F_{g_1} - T = m_1 a$

$(3.0kg)(9.8(m/s^2)) - T = (3.0kg)(0.25_{m/s^2})$

$T = ?$

$\vec{F}_{net} = m\vec{a}$

$T + F_a - F_{g_2} = m_2 a$

??

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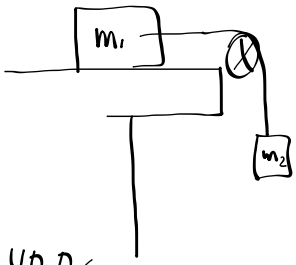
25.

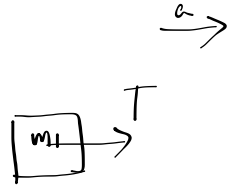


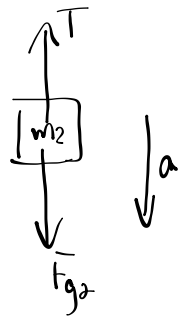
$m_1 = 40.0g$

$m_2 = 25.0g$

$\Delta d = 0.85m$

$\Delta t = ?$





$\vec{F}_{net} = m\vec{a}$

$T = m_1 a$

$T = (0.0400kg)a$

$\vec{F}_{net} = m\vec{a}$

$F_{g_2} - T = m_2 a$

$m_2 g - m_1 a = m_2 a$

$\Delta d = \cancel{v_i t}^{0} + \frac{1}{2}at^2$

$m_2 g = m_1 a + m_2 a$

$m_2 g = a(m_1 + m_2)$

$a = \frac{m_2 g}{(m_1 + m_2)}$