

$$3$$
 T - m, $g = m$, α .

$$4 \quad \alpha_1 + \alpha_2 = 2\alpha_3$$

$$(m_1 + m_2) F - (m_1 + m_2) (m_1 + m_2 + m_3) g$$
 $+ (m_1 - m_2) g$
 $(m_1 + m_2) (m_1 + m_2 + m_3) a_3$
 $- (m_1 - m_2) a_3$
 $(m_1 + m_2) F - 4 m_1 m_2 g + m_3 (m_1 + m_2) g$
 $(m_1 + m_2) F - 4 m_1 m_2 g + m_3 (m_1 + m_2) g$
 $(m_1 + m_2) F$
 $(m_1 + m_2) F$

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

+ $(m_2 - m_1)a_3$

$$Q = \frac{m_1 - m_2}{m_1 + m_2} \left(g + a_3 \right)$$

$$Q = \frac{(m_1 - m_2) F}{4 m_1 m_2 + m_3 (m_1 + m_2)}$$

g