

$$T' = \mu_{d} m_{1} q + m_{1} a$$

$$T - \mu_{d} m_{1} q - m_{2} a - \mu_{d} m_{2} q = m_{2} a$$

$$T - \mu_{d} m_{1} q - m_{3} a - \mu_{d} m_{2} q = m_{2} a$$

$$T = \mu_{d} (m_{1} + m_{2}) q + (m_{2} + m_{2}) a$$

$$T = \mu_{d} (m_{1} + m_{2}) q + (m_{2} + m_{2}) a = m_{3} a$$

$$m_{3} q - \mu_{d} (m_{4} + m_{2}) q - (m_{4} + m_{2}) a = m_{3} a$$

$$m_{3} a + (m_{4} + m_{2}) a = m_{3} q - \mu_{d} (m_{4} + m_{2}) q$$

$$(m_{4} + m_{2} + m_{3}) a = [m_{5} - \mu_{d} (m_{4} + m_{2})] q$$

$$a = [m_{3} - \mu_{d} (m_{4} + m_{2})] q = [q_{3} - q_{4} (m_{4} + m_{2})] q$$

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$$= [m_{3} - \mu_{d} (m_{4} + m_{2})] q + (m_{4} + m_{2}) q = [q_{3} - q_{4} (m_{4} + m_{2})] q$$

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