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(m, + m2) (10, + m2 (202 cos (+1-02) - m2 2010 sin (+1-02) + m2 (202 sin (+1-02)) + m2 (12 8, 02 sin (+1-02) - (m1+m2) 9 sin-01) =0 (m, +m2) (++ m2 (2+2 cos (+, -+2) + m2 (2+2 sin (+, +2) - (m,+m2) 9 sin +x 2mlit, +ml2t2_ (2m)gt =0 2mlt, + mlt. - 2mgt1 =0 L = 1 m, (2+1+1 m2 (12+1+12+12+12+12+12+12+05 (+1-+2)+(m1+m2) g li sin ti + m2 g 2 sin t2 -> (d (2) - 2 = 0) = m2 12 + t m2 (1 (2+), ws (+) -+2) 21 = - m2 lilz titz sin (ti-tz) + m2 g/2 cos tz # $\frac{d}{dt} \left(\frac{\partial L}{\partial \theta_2} \right) = m_2 \left(\frac{\partial^2}{\partial \theta_2} + m_2 \left(\frac{\partial^2}{\partial \theta_1} \right) \cos \left(\frac{\partial^2}{\partial \theta_1} - \frac{\partial^2}{\partial \theta_2} \right) - m_2 \left(\frac{\partial^2}{\partial \theta_2} \right) \sin \left(\frac{\partial^2}{\partial \theta_2} - \frac{\partial^2}{\partial \theta_2} \right)$ m2 2-02 + m2 1, 12 t, cos (t, -02) - m2 1, 12 t, sin (t, -02) + m2 1, 12 t, t, sin (t, -02) + m 2 1 12 t + t 2 sin (t1 - t2) - m 2 9 2 sint 2 = 0 m2/2+02+ m2/1+01 cos (+1-+2) - m2/1+12 sin(+1-+2)+ m2/1+1+2 sin(+1-+2) + m24 0, 02 sin (01 -02) - mgsin 02 = 0 m2 2 t2 + m2 lit, cos (t, -t2) - m2 lit, 2 sin (t, -02) - m2 gsint2 =0

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