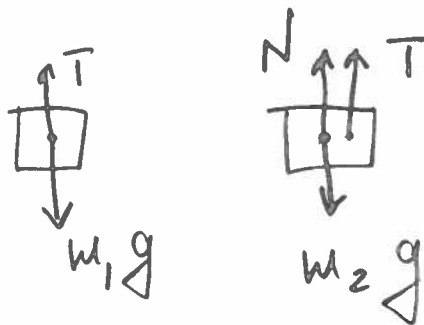


Answers Test 2 2013

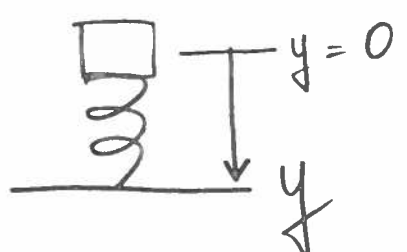
1.  $t^* = \frac{m_2 - m_1}{m_1} \frac{g}{c_1}$

2. $F_x = -\frac{2k_0 x}{L^2}$

3. $t \leq T \quad v = 0$

$t > T \quad v = \frac{\beta t^2}{2m} - \mu g t + \mu g T - \frac{\beta T^2}{2m}$

$T = \frac{\mu m g}{\beta}$

4.  $m g y_s - \frac{k_1 y_s^2}{2} - \frac{k_2 y_s^4}{4} = 0$