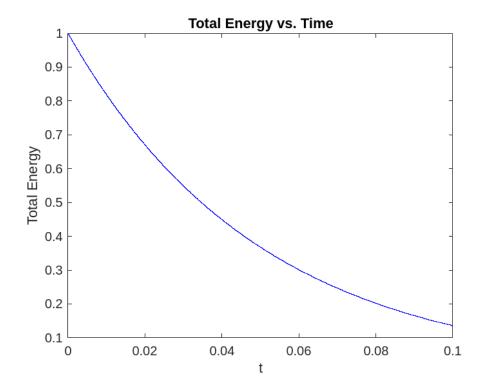
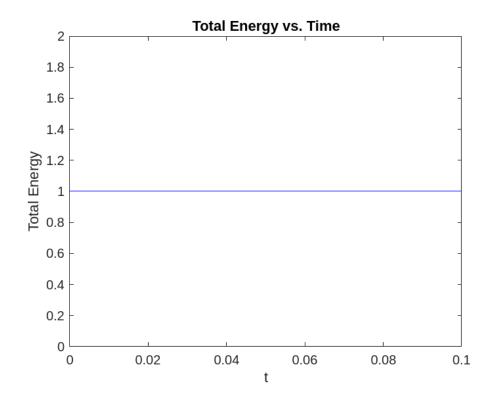
Date	-
ME 3030	4
Assignment -1	-
6 V	4
K (m2	
mil 19	
91/	
×	
Sparing Foorce r (17, -9,1-2) 92-91	
$F_{S} = k \left( 191_{2} - 91_{1} \right) - 2 \left( 91_{2} - 91_{1} \right) $	
Damping France Fa = c(siz - si,)	
Cogravity foorce $\vec{f}_g = -m\vec{g}$	
$9_1 = \langle N_1(t) \rangle$ $9_1 = \langle N_2(t) \rangle$ $9_1 = \langle N_1(t) \rangle$ $9_1 = \langle N_1(t) \rangle$ $9_1(t)$	
$\frac{912}{92} = \left(\frac{112}{12} \left(\frac{112}{12}\right)\right)$	
Wouting equotions food mis	
$m_1 \left\{ \begin{array}{c} \dot{y}_1(t) \right\} = \kappa \left( 191_2 - 91_1 - 1 \right) \left\{ \begin{array}{c} \chi_2 - \chi_1 + \zeta \left( \frac{3}{2} - \frac{3}{1} \right) \right\} \\ 191_2 - 91_1 + \frac{3}{2} - \frac{3}{2} + \frac{3}{2$	
1 (y, (+)) 1 (y, -y, ) (y, -y, ) (y, -y, ) - m, (q)	
working equations foor mz:	
m2("1/41) = K/1972-941-2) ] My-N2) - C("12-X, )-m, (0)	
(ý, (+)) (19, -9, 1) (y, -y, ) (g)  Spiral (g)  Teacher's Sign	
Spiral Teacher's Sign	****

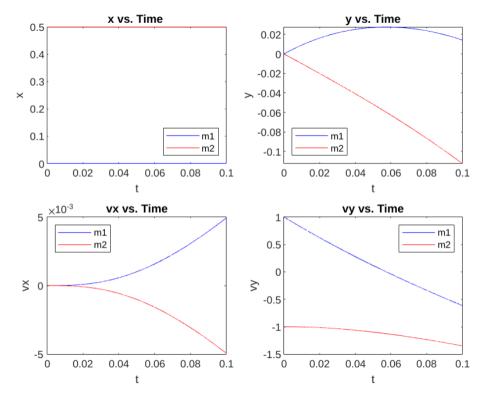
## 1. Plot of total energy vs time when damping is non zero:



## 2. Plot of total energy vs time when damping is zero:



## 3. Plot of x, y, vx and vy when damping is non zero



## 4. Plot of x, y, vx and vy when damping is zero

