14,3

Generalited Coordinates: 4:4

Generalized Forus on y : 7: F-bý

Kinetic Energy:

K = 1/2 my2

Potencial Energy P = ±ky2

Lagrangian

L = K-P = 1/2 my2 -1/2 hy2

Eller Lagrange equators:

$$\frac{d}{dt}\left(\frac{\partial L}{\partial \dot{y}}\right) - \frac{\partial L}{\partial y} = 2.$$

where

ZL = mý

de ( )L - mý

Dr -- ky

So the equations of motion are

Tmÿ + ky = F-6 ÿ

5550 - 200 sher