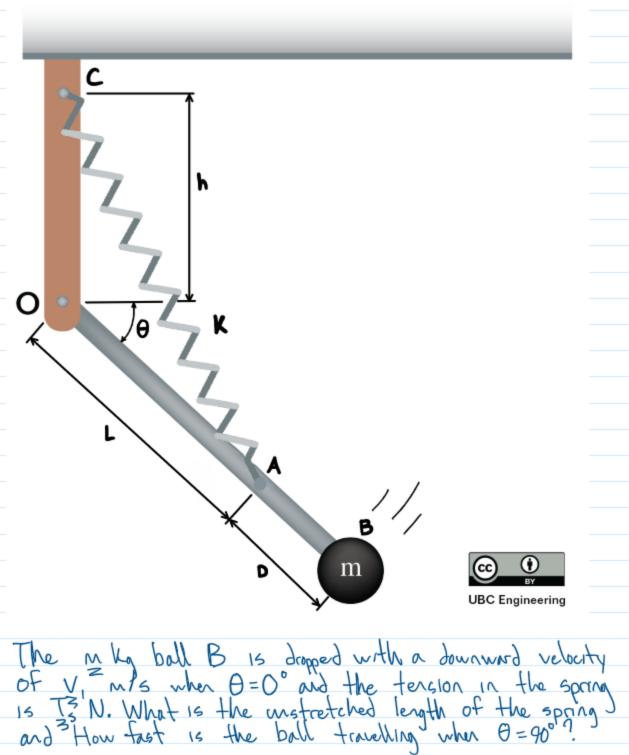
21-P-WE-GD-019



(Assume q=9.81 m/s², K= & N/n, L= Lm, D= Dm and h= hm)

given m, v, , O, , Ts, Oz, g, K, L, D, h FIND $\Delta \times_2 = (h+L) - l_s$ $T_s = 100 = K \Delta x,$ $\Delta x_i = T_s/K$ $l_s + \Delta_{x_i} = \sqrt{h^2 + L^2}$ $L_s = \sqrt{h^2 + L^2} - \Delta_x$

Conservation of energy no gravitational pot. at state 1 because of Jutum -> neg. grav. pot. at state 2 $T_1 + V_1 = T_2 + V_2$ 1/2 mv, 2 + 1/2 K dx = 1/2 mv 2 + 1/2 K dx 2 - mg(L+D)

 $V_2 = \sqrt{\frac{mv_1^2 + \kappa \Delta_{x_1}^2 + 2mg(L+D) - \kappa \Delta_{x_2}^2}{m}}$