20-R-VIB-DY-26 Beginner. A box of mass m = sty is connected to a spring, k = 2001/ on the wall. The ground has a friction coefficient of M=0.2. Given an initial displacement of 0.1 m, determine how long it takes to FDD: Fh way -m- m Ff > Fk at stop oc (t) = (xo - (2n-1) umg) (0) What + umg (1) (n+1) n= every half period because fithic > function Wn= 1/40 rung 7 Koc(t) 1 x > (x - (2n-1) umy) cus vat + 1 mmy (4+1) 6.04905 > (0.1-0.04905 (2n-1)) cost40 t + 0.04905 (-1)

$$h=1$$
 , $x(t)=0.0019$
 $h=2$, $x(t)=0.0962$
 $h=2$. $\sqrt{90}t=2\pi$ $t=\frac{\sqrt{90}}{2\pi}$

period, 27