20-R-VIB-DY-26 Beginner. A box of mass m= sty is connected to a spring, k=200N/m on the wall. The ground has a statical kinetic friction coefficient M=0.2. Given an initial displacement of 11 m, determine how long it takes to FDD: Find The Come to a stop. from m Ff > Fk at stop oc (t) = (xo - (2n-1) mmg) (0) What + mmg (-1) (n+1) n= every peak

n= every peak

has to stop at peak

because fithic > fkinetic $W_n = \sqrt{\frac{k}{m}} = \sqrt{40}$

jumy 7/ kx(E)/

1 mg > (x - (2n-1) mg) cus wit + mmg (+1) 0.04905 > (lm - 0.04905 (2n-1) cos 540 t + 0.04905 (-15n+1) 0.04905> (200 - rung (2n-2))

> n= 11 100 E = 107 S full
> periods
>
> t = 1077
>
> Tyo