20-R-VIB-DY-26 Beginner. A box of mass m= sty is connected to a spring, k=2001/4 on the wall. The ground has a friction coefficient of M=0.2. Given an initial displacement of 11 m, determine how long it takes to FDD: Find Ing for m Ff > Fk at stop oc (t) = (x0 - (2n-1) umg) (0) What + Mung (-1) (n+1) n= every peak 1 3 5 has to stop at peak
because fethic > fkinetic $W_n = \sqrt{\frac{k}{m}} = \sqrt{\frac{1}{40}}$ ung 7/kx(t) ung > (xo - (2n-1) ung) cus wit + ung (41) 0.04905 > (lm - 0.04905 (2n-1) cos 540+ 0.04905 0.04905> (>10 - mmy/2n-2)-) n= 11 100 E = 107