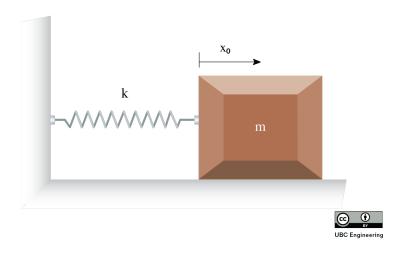
A box of mass m = 5kg is connected to a spring, k = 200N/m on the wall. The ground has a static and kinetic friction coefficient  $\mu = 0.2$ . Given an initial displacement of 1m, determine how long it takes to come to a stop.



FRD FK (m)

$$-\frac{1}{4} - \frac{1}{4} = 0$$
  $-\frac{1}{4} = 0$   $-\frac{1}{4}$ 

N = every peak

$$\frac{\mu my}{K} > \left| \left( \chi_0 - \frac{\mu my}{K} (2n-1) \cos \omega_n t + \frac{\mu my}{K} (-1)^{(n+1)} \right) \right|$$

LD 5 full cycles (perads)