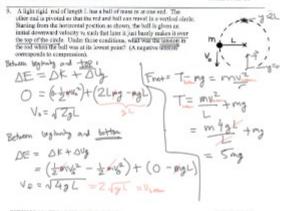


PHYSICS 121 TERM TEST -- FALL 2004

X = 0.09371m 7= KX= 60.9N

12.5 rev in 5 seconds.
12.5 rev in 5 seconds.
12.5 rev is have many meters of travel?

arr m (12.5 cer) = 2TTF [m)



PHYSICS 121 TERM TEST -- FALL 2004

8. A particle of mass in slides along a track in a vertical plane as shows. The upward curved part of the track is first imakes and the that herizontal part from B to C of length 1, has a coefficient of kinetic firstless µ₀ € 3.29). The flat section to the right of C is frictionless and the ideal spring has k = 500 M/s. The partiel's in released from rot at point A as shown. When, measured from point B does the particle eventually come to post? K ZKX2 D , (mm) Ato B: DE=DK+DY = (= my2 - 0) + (0 - mgL) VB=JgL B to C: Warm = DK Fr. d = |F, 118/curo =

Which =
$$\Delta K$$

 $M_K \text{ sing} X = O \neq \frac{1}{2} \text{ sin} \left(\text{cyl}\left(1+2M_K\right)\right)$
 $2M_K X = L\left(1+2M_K\right)$
 $X = \frac{L\left(1+2M_K\right)}{2M_K} = \frac{L}{2M_K} + L$

$$D = L - x = \frac{L}{2\mu k} = \frac{L}{2(4)} = 2L$$

PHYSICS 121 TERM TEST -- PALL 2004

7. Find Brandom's first grandom, Matthew James (MI), was too roung to go trafe-re-creating on his fast Inflationem this year. So like along Calley Elizabeth (CE), and his course Syshey Inter (SE), which is course by July Inter (SE), which is now produced to the course of the cou

