

Suppose L=2.2m, (0=27cn=0.27m)
the coefficient of spring is k,

0x=1.1cm

$$L' = L - L_0 = 2.2 - 0.27 m = 1.93 m$$

$$\int U = \frac{1}{2} k v x^{2}$$

$$\int U = \frac{1}{2} k v x^{2} \Rightarrow U x = \sqrt{\frac{1}{m}} v x$$

$$\int U = 0 K$$

L'= Dxt = Fing dx Similiarly, the correct speed

ひx= 原本 dx', where ox' is

the correct length of the spring being compressed.

$$L = v_{x}' + \frac{v_{y}}{v_{y}} \cdot v_{x}'$$

$$= \frac{v_{x}'}{v_{x}'} = \frac{v_{x}'}{v_{x}'} \cdot v_{x}'$$

$$= \frac{v_{x}'}{v_{x}'} \cdot v_{x}'$$

$$= \frac{v_{x}'}{v_{y}} \cdot v_{x}'$$

$$= \frac{v_{x}'}{v_{x}} \cdot v_{x}'$$

$$=$$

(c) 
$$u = \frac{u' + vv}{1 + vv} = 0.82644658c$$
  
=  $2.4793 \times 10^8 - /s$