1) when x = 0.011 m, Q = 1.43Mechanical energy is conserved, therefore: $\frac{1}{4} \text{m} v^2 = \frac{1}{4} \text{h} I^2$ So we have: $I_x = \frac{1}{4} I_x = \frac{$

Where I, is the compression of the spring on the first shot and In 19 the compression of the string on the second shot.

1 5 D T 5 (2.lm) (0.011m) 3 0.1834 m

Phoder dralel composes the string [100 cm]

1) R 5 0.2m M 7 2 kg S 5 0 kg T = 21MB2

