





= -31 → Energy Released
Example: Q. i) V = 60Ncm' k = 60Ncm'
(2.7) (2.7) (2.7) (3.7) (4.7) (5.7) $(5.7$
The man is pulled 3 cm to the right and then released. Calculate the total change in elastic potential energy.
1 (6000) (0.112-0.082) 2 (6000) (0.052-0.082)
= 17.17 gamed by blue = -11.77 lost by red
17.1 - 11.7 = S.4J -> wet change in EPE
ii) Given that all of this energy is converted into the KE of the block calculate the mitial speed with which this block begins to move
1 mu² = 5.4
$\frac{1}{2}(2)v^2 = 5.4$
v = 2.3ms ⁻¹
iii) Describe the motion of this object. Oscillatory motion about it's mean position