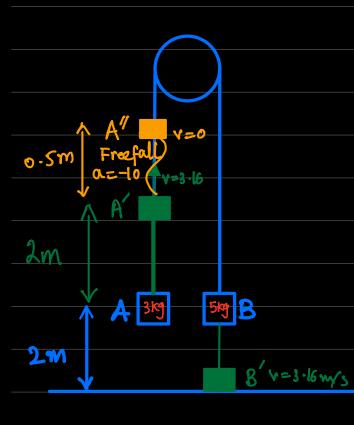


18 4=3.16 m/s

## (iii) Find greatest height above ground reached by A (5)



A'

$$A''$$
 $u=3.16$ ,  $\alpha=-10$ ,  $v=0$ ,  $s=?$ 
 $2\alpha s = v^2 - u^2$ 
 $2(-10)(s) = 0^2 - 3.16^2$ 
 $s' = 0.5$ 

greatest height = 2+2+0.5= 4.5m.

## VARIATIONS

Find:

(a) max height above ground reached by A. 2+2+0.5 = 4.5 m

(b) Distance travelled by A to reach max height. 2 + 0.5 = 2.5 m

co Distance travelled by A from start of Journey till it comes to rest again.

$$A \longrightarrow A' \longrightarrow A'' \longrightarrow A'$$

$$2 + o \cdot 5 + o \cdot 5 = 3m \cdot$$