m = 400kg

h=6m => 5=12m/s.

L'energia mecànica en conserva (no hi ha fregament)

Si h=10m. => N=?

Com l'energia el conserva: En= 1 m N2+ mgh = 12.400.12+ 400 9.81.6

En= 52344J.

Quanteuin halon.

En= Ec+ U = Ec= En-U= 52344-mgh

E = 52344 - 400,9,81.10 =

.13104J

 $E_{c} = \frac{1}{2}mJ^{2} \Rightarrow \sqrt[3]{2E_{c}} = \sqrt[2]{\frac{2.13104}{400}} = \sqrt[8.09 \text{ M/s}]$

A mivel de terra U=0 => Ec=En=52344J

$$N = \sqrt{\frac{2E_c}{m}} = \sqrt{\frac{2.52344}{400}} = 16.3 \text{ m/s}$$

Quen assoleix l'alcada màxima: V=0

En= U = mgh max

$$h_{max} = \frac{E_{M}}{mg} = \frac{52344}{400.9.81} = 13.3 m$$