= 8,79 (rod/) 106 Nov: m-gats t= 34 = 7130 10 +15 P)  $F_{cb} = \frac{1}{W_0}$   $\Rightarrow \frac{1}{W_0} = 5 \times B \Rightarrow V = \frac{3B}{W_0} = \frac{3B}$  $= \sqrt{2.9.1.10^{31}.16.10^{19}13} = \sqrt{29.13.10^{201}} = \sqrt{2913.10^{201}} = 2.13m$ Oy) i) FE=FB = DE = &VB =V= EB  $||f| = 2 \cdot ||f| = |f| = |f|$ JR: ME SBBI straves is megacias a objust aboreiras exprot (i [8] FOR = 151 CE (BX ) = 151 = 1500 1B1

1) Mos: L= Iwo 200= = (valocidade orgular inicial)

() Mos: L= Iwo 200= = (valocidade orgular inicial)

() Conservação da energia recolicia:

exoloitmap amu and com; essay amb emphot seed li to momento original continuos:

181607 ti = 16 th. 5 = 10 ( 11 th = 5

(0)

Training: 
$$E_{R} = E_{C} = \frac{1}{2} I \omega_{0}^{2}$$

Final:  $E_{R} = E_{C} = \frac{1}{2} K \omega_{0}^{2}$ 
 $\Rightarrow \Theta_{0} = \omega_{0} \int_{K}^{\infty} = \frac{1}{2} I \int_{K}^{\infty} = \frac{1}{2} I \frac{\partial^{2} I \partial^{2} I}{\int_{K}^{\infty}}$ 
 $= \frac{1}{2} I \frac{\partial^{2} I \partial^{2} I}{\int_{K}^{\infty}}$