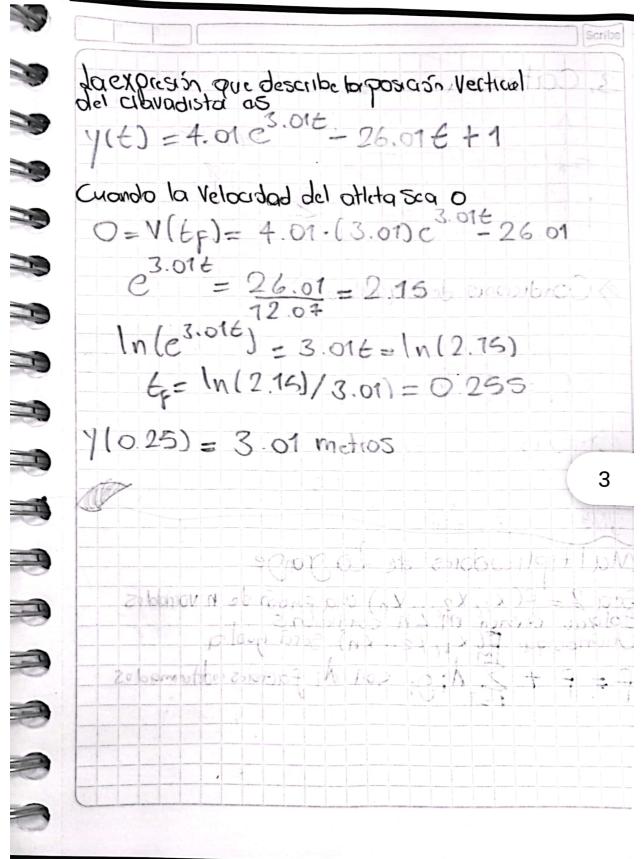


pa 10 cual, dotenamos lo siguinte md2x = 5285.46-588.6+180.87dx  $\frac{0^{2} y}{0^{2}} = 78.28 + 3.01 dy$ =)  $\frac{d^2y}{dx} - 3.01 \frac{dy}{dx} = 78.28$ Solucionamos la EDO -y" + 3.017 = 0 m-3.01m=0=)m(m-3.01)=0  $M_{1}=0$  ( $M_{2}=3.01$ 50/4Ción complemetalla /(E) = 918 + 928 /p(E) = AE + 6 -3.01A = 78.28 => A = -26.01 Yp(E)+y(E)=9203015-26.016+99 Systituimos las condiciones iniciales y(0)=5=92+91 dyle) = 3.0192 e3.016-26.01= V(t) V(0) = -13-93 = 3.0192 -26.01 00=4.01, 5-4.01=91=0.99



| 5m | Priotación<br>Vwt Frozamento | Volumendel cordio: I/110.02 |
|----|------------------------------|-----------------------------|
|    | Corcho                       |                             |

|  | Λε   | Volumendel corcho: INO.025)                             |  |  |
|--|--|---|--|--|
|  | FElotación<br>Vwt Frozamento               | Dusidod: 256.74 KJ/m3                                   |  |  |
| 5 M  |  | mosacacho: 0.02kg                                       |  |  |
| Cord   | .ho  |   |  |  |
|  | $-\omega - F_r = m \frac{d^2y}{d\epsilon}$ |   |  |  |
| = 1000Kg   | ·1 \fun(0.02\f)3)(0                        | 7.81m)-9+1(0.025)3(256+F)                               |  |  |
| -10.47 (<br>2  | 1000kg)( 100.                              | $0.25 \text{m}^2 \text{J} \left( \frac{dy}{dt} \right)$ |  |  |
| $md^2y = 0.64 -$   | 0.19 -1.24/                                | JY)   |  |  |
| $\frac{\partial^2 y}{\partial t^2} = 22.5$                               |  |   |  |  |
| y" + 23.17 =   | 22.5 M Soluci                              | onamos La EDO   |  |  |
| -) m2 + 23.1m=0  | $\Rightarrow m(m+230) =$                   | $0   m_1 = 0_1 m_2 = -23.1$                             |  |  |
| Locas Lece)  | = 47 + 420                                 |   |  |  |
| Yp(E) = AE+B =   | ) Yp 1/ +23.1y -                           | - 22.5 = 23.1 A = 22.5                                  |  |  |
| A = 0.97   | -23.1t                                     | 22112   |  |  |
| Y(E) = yp(E) tycl<br>evaluomos las condici                               |  | 0.976111  |  |  |
|  |  | 23.192+0:94= 4  |  |  |
|  |  |   |  |  |
| 92 = 0.04 (91 = -5.04)<br>1 = 0.04 (91 = -5.04)<br>1 = 0.04 (91 = -5.04) |  |   |  |  |
| 126  | $= e^{-23.16} + 2$                         | 1.256   |  |  |
| 0 5 2 - 1 2 3  | $(2.04)^{-23.16}$                          | 9 (V=5.7cm)   |  |  |
| V(t) = -23.  | 1(0.04) e +                                | 0.976 - 5.04 Morma                                      |  |  |

