UNIVERSIDAD DE SAN CARLOS DE GUATEMALA **FACULTAD DE INGENIERIA ESCUELA DE CIENCIAS DEPARTAMENTO DE FISICA PRIMER SEMESTRE 2023** PRIMER EXAMEN DE FÍSICA 1



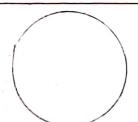
REG. ACADEMICO: 202100081

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PI= WC= lorad/s Problema # 1

P2 = x = 2.0 mgz P1. P2 -> (antidod de vuellas que ha dado Pe para alcado P1

f= &= 0100 Wo == 10 lad/s d = 0 moss

DF= ? ked Wr= 10 rad/s E= ?

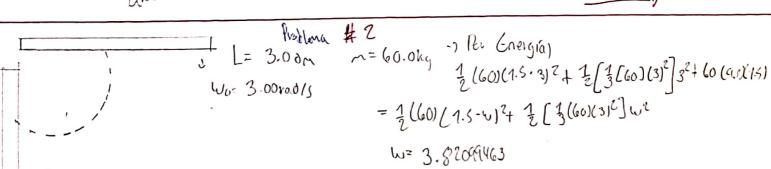
1/2=00=0100 W0=0100/1 Z=2100/152 0F=2 Wr= ! E=

Pz= 8 F= (1/2) (2) (10) = 100 rad

10t= 1 li)t2 f- 05 , f- 105

100 rad+ 1/20 = 15,9184945

75.96/p



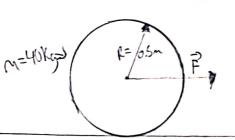
W= 3-821 rad/s

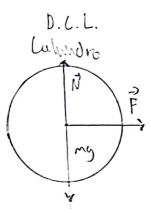
$$\vec{L} = 3 \begin{vmatrix} \hat{3} & \hat{3} & \hat{k} \\ 3 & 0 & 0 \end{vmatrix} = 02 - 02 + (15 - 0)\vec{k} - \vec{l} = 3(15\vec{k}) = 45\vec{k} kg \cdot m^{3}k$$

45 k Kg m / B

aTt= 10.73463553

UT= 10.73





Preymba #8

36007 640.0kgm²/s despuis 205 8.0kgm²





