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

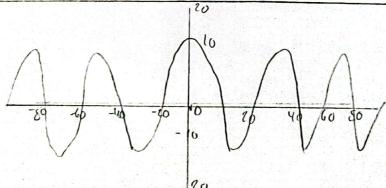


## **EXAMEN FINAL DE FISICA 1**

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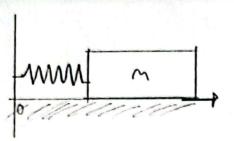
Plegundo No. 1 f = 0.05 -> +X 30.0He to => F Vonda=? y= Aco(x(xtre)



V=== 2-f; -) V=(40cm)(301/3) V=120cm/2 (cm/loocx >) V= 1,2m/)

Pregnila 2 Di-> MC.U -> 4,=10rods R-> Report -> d = Tradise Hweller, de Pe cundo alcance a Pi P1-) 0=00+W6; Sucido 00=0; P2-) 02(t)=00+Wort+2x69; 00=0-) 02(t)=Wort+2x69 or (7)= } (1) { 2 } + fe alt)= 1 ( ? rad(s (2052)

0,16)=0c(0) 10 t= 1,60, 20t=62 > 62-706=0 € (€-20)=0 -> €1=05 ( Darter de as mo ponto) 0€61= 200 rod + 1 million = 31.83 tr=70 ( to exaution)



Projunta 3 t201 - Marine relocudos, va hacro la delectra V(t)= Awsen (colty) a(1) = Awr (o) (why)

dult = 0 -> t= 0-> Velowder Maxure -> 0= - Awelong -> como Awito entimes ws y=0 -> y= 1 7 y = - 1/2

4= ₹ 100 ≈ 1,5 701 rd 11.5708

Dregarka 4

F= 6.MT.Ms a Juelle el plenelo ducce m=10mr

Fuel to diverse Schelater Frenza Planeto Soklate

	Mora 8	Loarderedor		Pluymla 5		F-1-413/714/
	, ky	N(m)	{ Y(~)	-	Ime	F,=(02136J)N
W	7	0.0	0-0		Imy	Fi=F2/1+F3/1+F4/1
mz	4	00	2.0		MI	
ms	1	0.0	-1.0		Mg	VEN/1 = 6.4102 = 6(2)(3)(5)
my	M4?	0.0	1.0	11.0/12/2	VPY	0142 = 6(2)n4 (-j) = 26m4(-j)
B) My	=6 ky; (	Fi=(0 240)	i) N; 75-	41-66+66-61 661m <u>s</u>	M46=36-0	2 My = 3-) My -> 1.5Kg
				02		2 16 -1 08- 12 -08 4

0=22; So 0102 position + y=127

Onda Transment Pregente 6

Vivax = 0,05 m/s YU = Acorcens w 6150)

adim = 50 m/se;

Al Perrodo

duct) = Au3(0) (Kxtw(+50)=0-) (0(Kxtw+ +50)=0-) kxtw++ go = 7

Unax Au Danax = Son/r = Aw = 1 = 1000 -) w= 0,00 lvad/s
Anax Aur Dinax 0,05m/, Aw = 1 = 1000 -) w= 0,00 lvad/s

W= 2t=7 T= 20 -) T= 201000 = -) 6283. 195/

b) Uprop= 2ml, -> T=2 -> 7= (6283,195) (2m1,1-) 7=12566,38m

K= 2x = K = 2x - 0.0005 - K=5xW4m-1 = 0,0005m-1

A16283-195 B) 0,0006mi

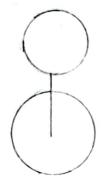
Preyentut m=0,40ky t=05-1x=-15m Vo-sa.a.oy x+ T=0,80 s/acto b) x(6)= 0,15 cos (2x1t); T=1=> J= 1,25

= 0,10 -> K=24,67N/M

x(6)=0,15 cm (2,506)=> (=45-) x(6)0,15 cm (6,5)(4)(10)
x(6)=0,15 cm (102) >7 x(6)=0,15 mp

B) 0.15m

Maro dela trona



M= 1,500,0 Ky

T= 7,616,53,

MT=5,93210 EUKY 12T=637011M=6,37