larea 2 Angie r	Marchena Mondell	Hebrott member 17
=> Problema 1.	***************************************	
Datos:		
f=5Az La onda	es tal que y = 0	
A = 12cm = 0,12m	x = 0	***************************************
Vf = 20m/scg	T=0	***************************************
alla frewencia angular	b) El número de a	
w = 2nf	$K = 2\pi/\Upsilon$	Y = Vf/f
ω = 2π5Hz	K=2n/4m	Y = 20m/seg
w= 10rad/seq	K = 0,5mm-1	5Hz
	***************************************	Y = 4m
) Escriba una expresión po	ara	
a función de anda.		
Y = Ascolwt+KX +8) 5=		
y = 0,12 sen (10+++0,5 mx)		
†	***************************************	
) Maxima rapidez transverso	d c) Maxim	a a relevación transverso
1= 04/04		
0112.10n.cos (10nt + 0,51		
1,201.1 =>		= 110.43 m/s2

Angie Marchera Mondell Problema 2	A BANANA C
m = 50 = 0.005 kg $y(x,t) = 6\cos(0.020 \pi x + 4\pi t)$ $T = 0.12 N$	
a) amp = 6m	
$\frac{1}{1} = \frac{2\pi}{2} = \frac{2\pi}{1} = \frac{2\pi}{1} = \frac{2\pi}{1} = \frac{1000 \text{ cm}}{1000 \text{ cm}} = \frac{1000 \text{ cm}}{10000 \text{ cm}} = \frac{1000 \text{ cm}}{10000 \text{ cm}} = \frac{1000 \text{ cm}}{10000 \text{ cm}} = 1000 $	<u>inloced promised and a second to the second</u>
$w = 2\pi f \rightarrow 4 = w = 4\pi = 2Hz$ 2π 2π 2π	
$v = \lambda t = 100 \cdot 2 = 200 \text{ cm/s}$	Manage mound market
e) y (3,5cm, 0,265) = 6cos 10,621 · 3,5 + 411·0	0,26)
$(\frac{1}{4})$ $\vec{v} = \frac{1}{3}(y) = 4\pi - \sec(0.02\pi x + 4\pi f)$	cr = 89146 cm/s ²
$V(x,t) = -24\pi sen (0.02\pi x + 4\pi t)$ $Vm\dot{\alpha} = 24\pi = 75.4 cm/s$	b) amáx = 1-96n2/

<u>913,5,0,261 = 96112 (05(0,0211 x 1 9118)</u>	

3) Problema 3 Angie Marchena Mondell