Phys 2110-4 4/22/13

Note Title 4/22/2013

Waves

In time of one period,

The wave moves

by λ Snopshot $\lambda = V T$

v(x,t)

 $\int f_{W_{4}}f = 1/T$ $W = 2\pi f$

y = x

Light, radio are EM warry Me follow Mf = V V= C= 2.798×108m not travel in medium. 2° semester. mathemetical form

$$y = f(x \mp vt)$$

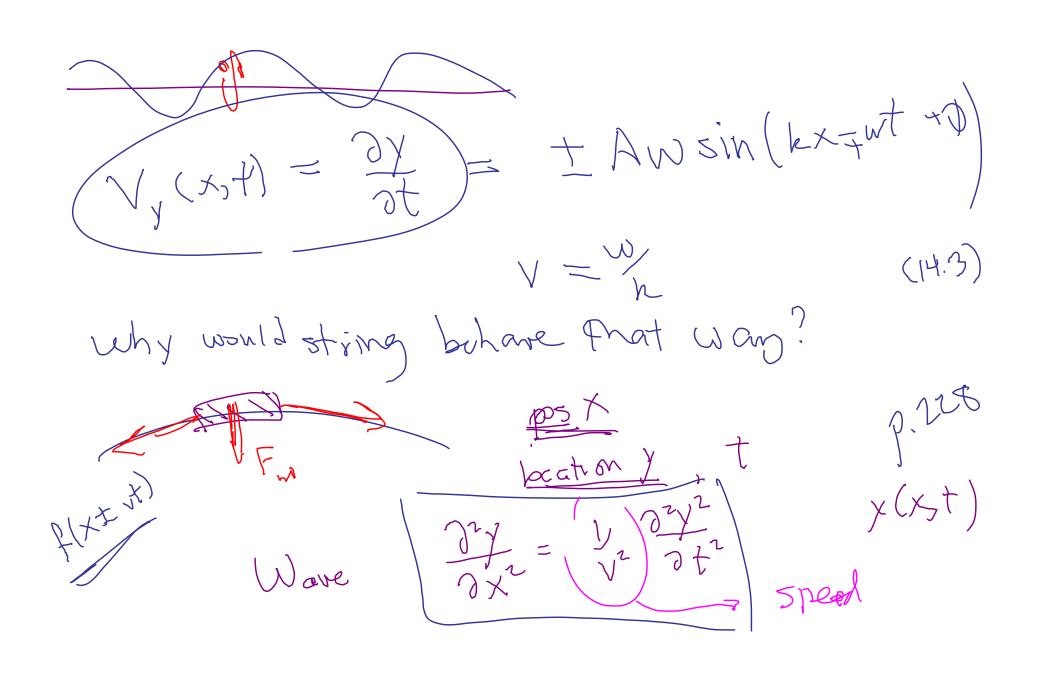
$$y = A \cos(k(x \mp vt) + \phi)$$

$$k = 2\pi$$

$$kv = 2\pi$$

$$v = 2\pi f = \omega$$

$$f^{(n)}$$



Daination 5:05 expression for v (14.9) V=VE Waves in water, solids

1 = 1 Elostic property

= kg/M

Power, Intensit p. 329 Cany enong Vibratus string; Energy time an evans P = 2 MW2 A They power 329 Harmonic ware String: $L_{M^2} = L_{M^2}$

Coenerally, wower travel in 3-dims Plane Word regions in space SAMe

