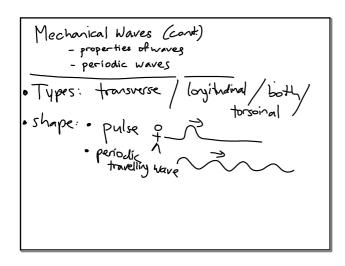
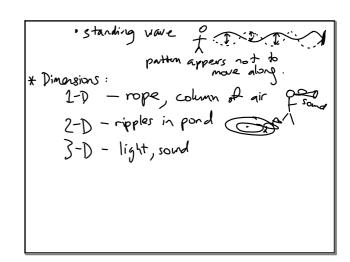
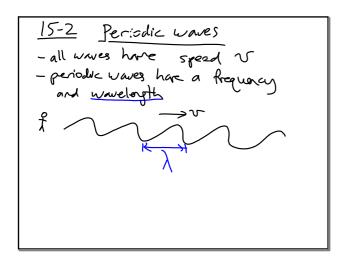
Untitled.notebook April 27, 2017





Apr 27-1:58 PM Apr 27-2:08 PM



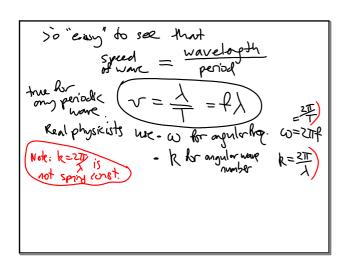
- wavelength λ is distance over which wave partern repeats ("period in space")

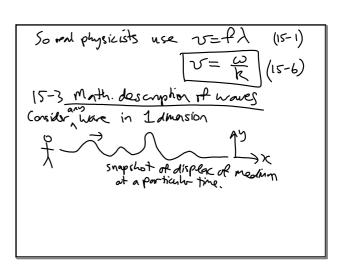
- period T (or f or ω) tells the time for one that numelarged to pass by.

periode wave involves a tracility distarbance.

Each put of the medium oscillates All have-some frequency (f, ω, T) - some amplified - different phases.

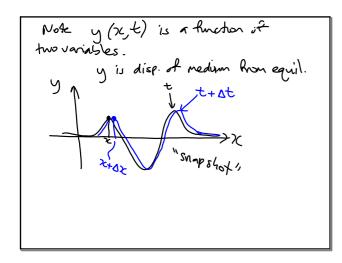
Apr 27-2:13 PM Apr 27-2:16 PM





Apr 27-2:26 PM Apr 27-2:30 PM

1



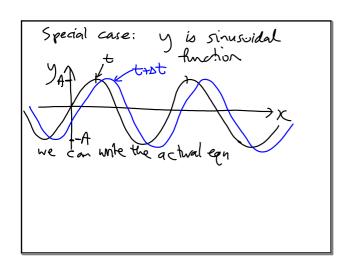
Easy to see that y(x+bx,t+bt) = y(x,t) - (x)Note x is the for any war moving

in +x direction.

Also note $bx = V\Delta t$ So (x) $y(x,t) = y(x+v\Delta t, t+\Delta t)$

Apr 27-2:35 PM

Apr 27-2:38 PM



Apr 27-2:44 PM

Apr 27-2:46 PM

Notes - each point in medium (soct)
undegoes SHM with perbet T
freq (\omega, t) and ampl. A.

- wave travelling in -x dirn
would be
(15-e) y (yt) = A cos(kx+\omegat)
- (laim H/W both 15-7 ad 15-8 satisfy (*)