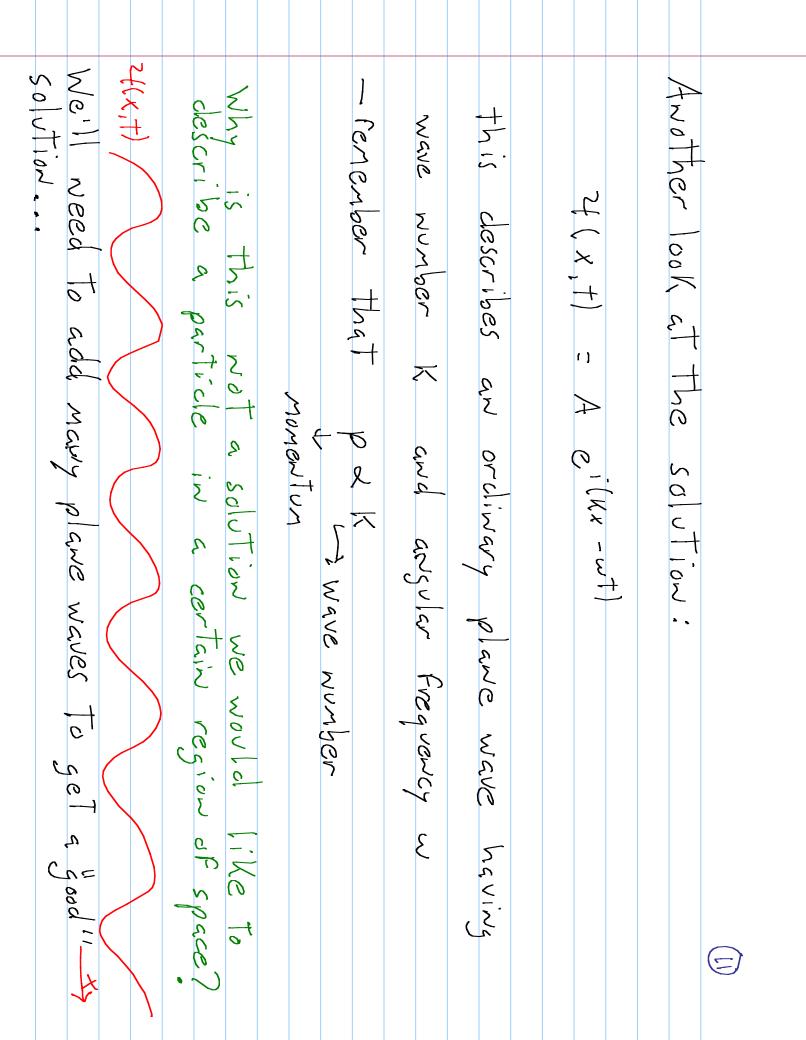
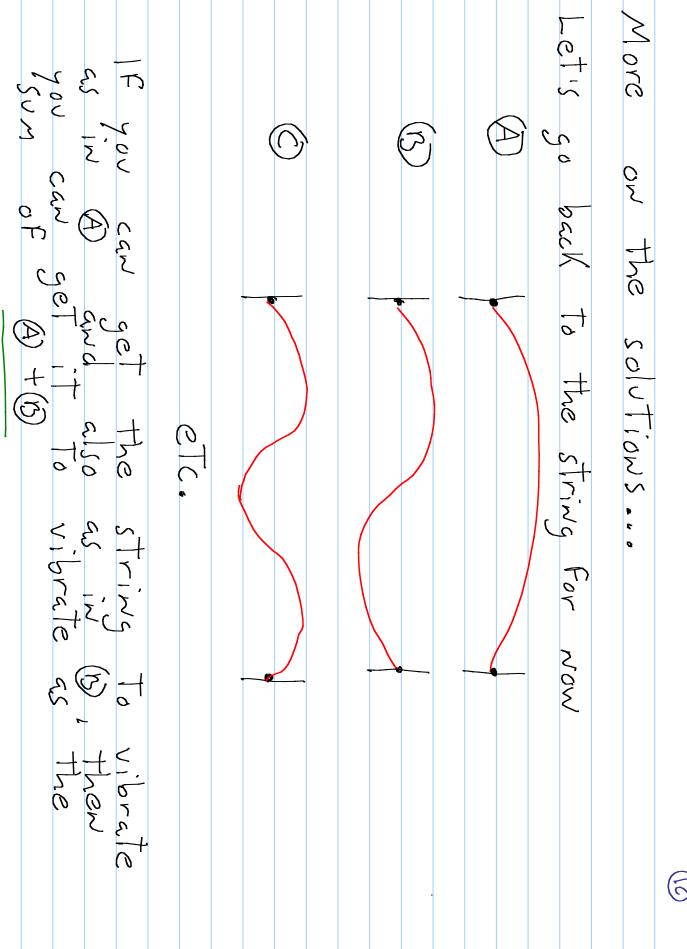
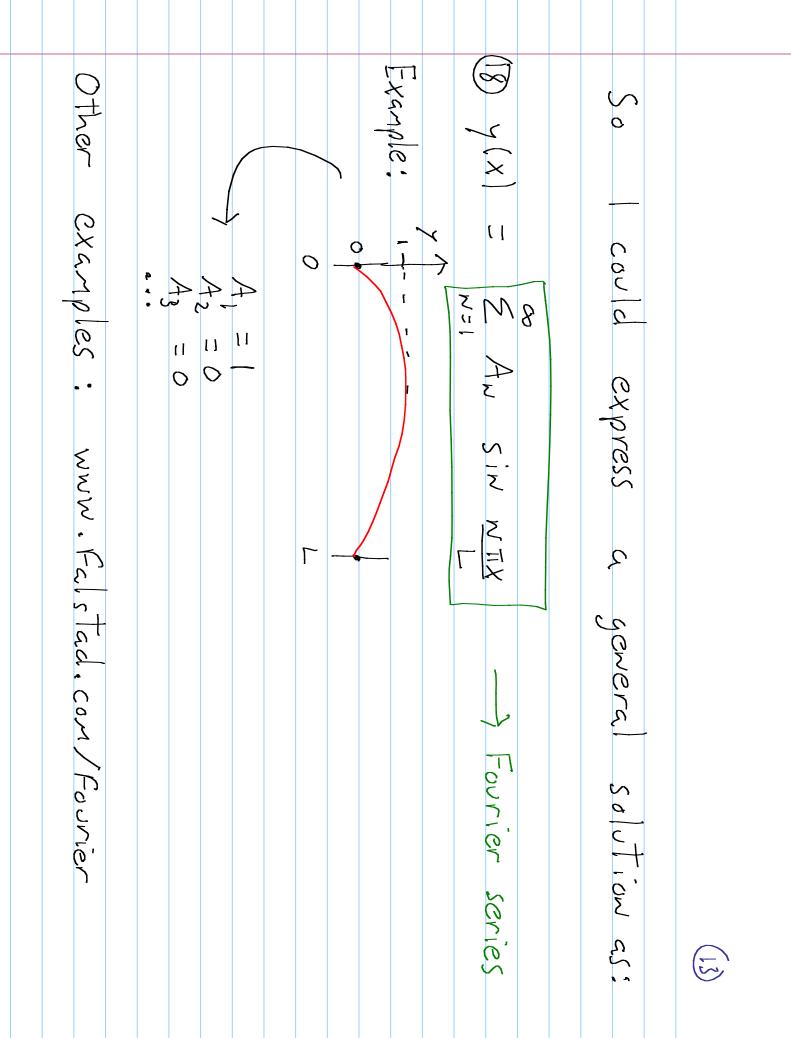


- allows it to be interpreted as a	
-> Superposition principle	
~	
$\frac{1}{2} = \frac{1}{2} + \frac{1}$	
, > ,	
Also, the solutions have some required properties;	
describe abusical reality.	
owe is ciable ciable tected and chown to	
o intime that alread any constraint. But this	
Note that we could have found attack differential	
$Solution: Y(x,t) = A e^{i(x-u)}$	
So we Found an equation starting from this	

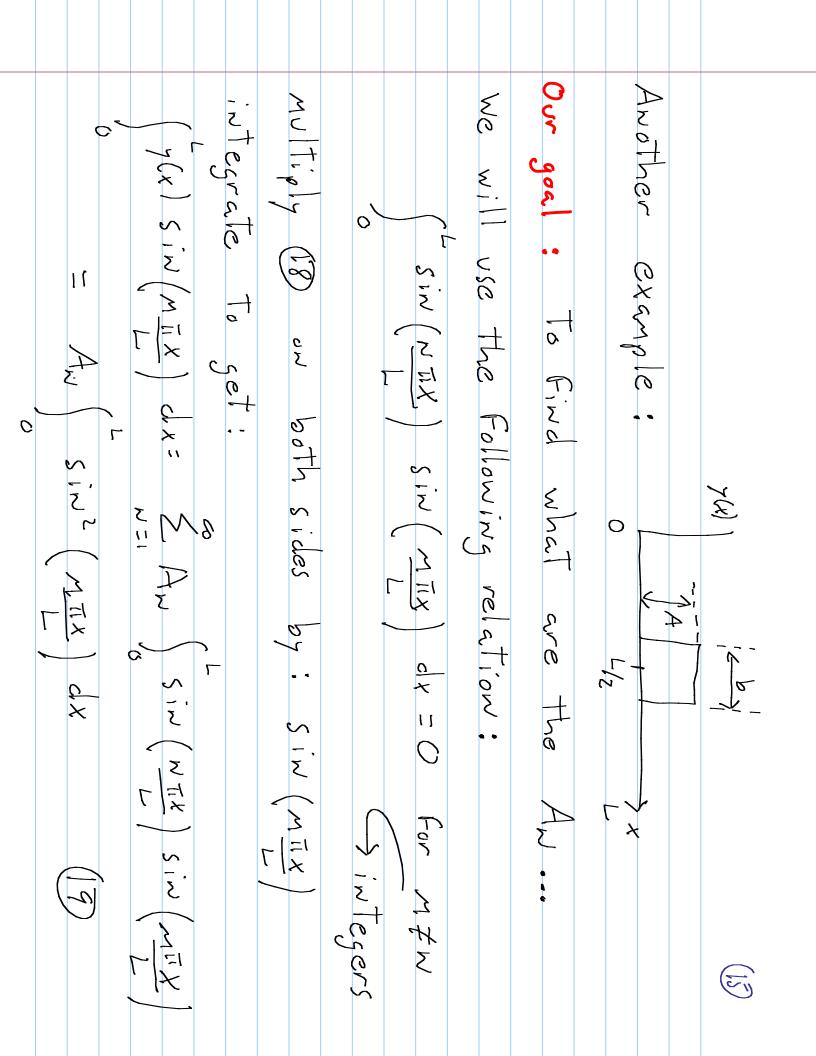


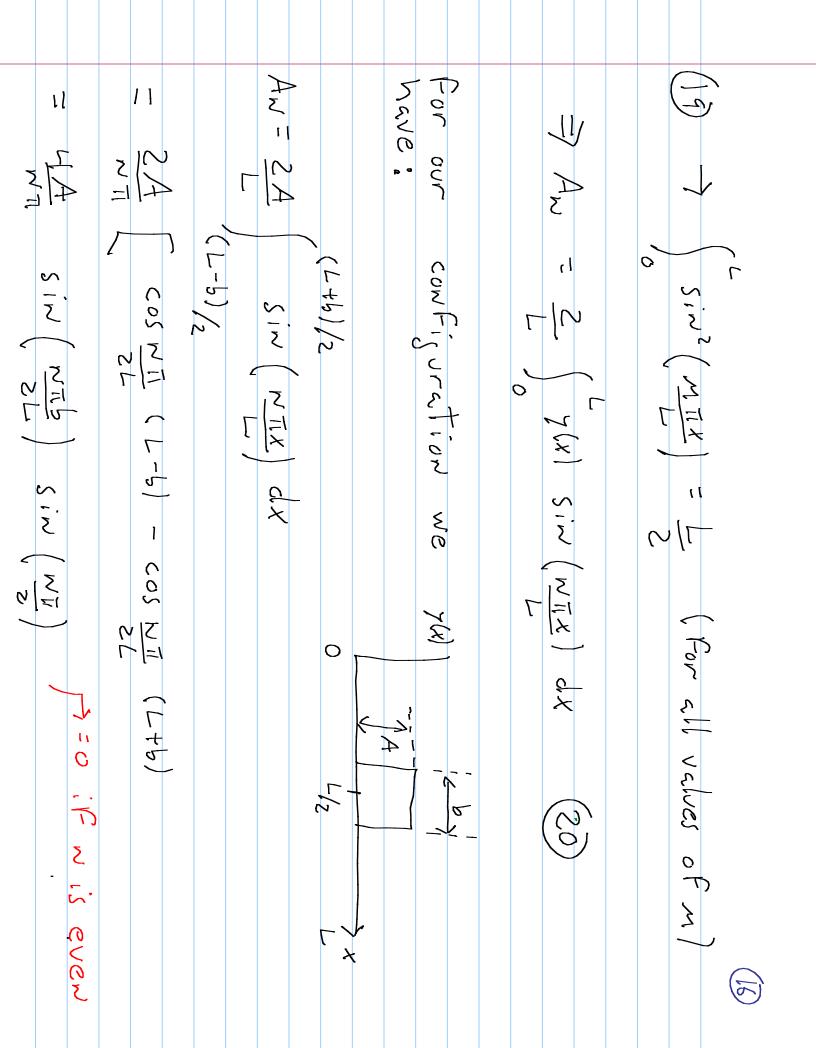


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-> some co discontin	differential holds: the is availab to the	Au, An 13n are definite integrals.	FC x) =	A Fourier	OURIER SERIE
-> some conditions supply: Finite discontinuities etc.	to the equation of sincer homogeneous ordinary differential equation, the superposition principle holds: the solution to an arbitrary function is available if a sinsusoid is a solution to the equation	stegrals.	11 × 10/ × 1	A Fourier series is an Function in afseries	FOURIER SERIES (quick overview)
ly: Fixite	the super	ted to F(x)	N=1 N=1 N=1	an expandion sines and	Ŵ)
number of	pasition principalities	$ \begin{array}{c} (x) Through \\ dx + p(x) y = 0 \\ dx + p(x) y = 0 \end{array} $	N=1 BN COS NX	ion of a periodic and cosines:	
Ewite	es tiple	$0 = \lambda$	*	eriochic	(II)





transforms to help us describe microsopic particles	-Next time, we'll introduce Fourier integral analysis and Fourier	arbitrary periodic functions.	-Using Fourier Series, we saw now one could and plane waves to model		confined within a certain region of space	-The simplest solution, being a plane wave, does not represent a particle	was complex	- The solution to the wave equation that obeyed the relation above		our colution	-We found a wave equation that could that but we had to change	2~	-We tried to find a wave equation that obeyed the relation:	41/2	So to recon:	