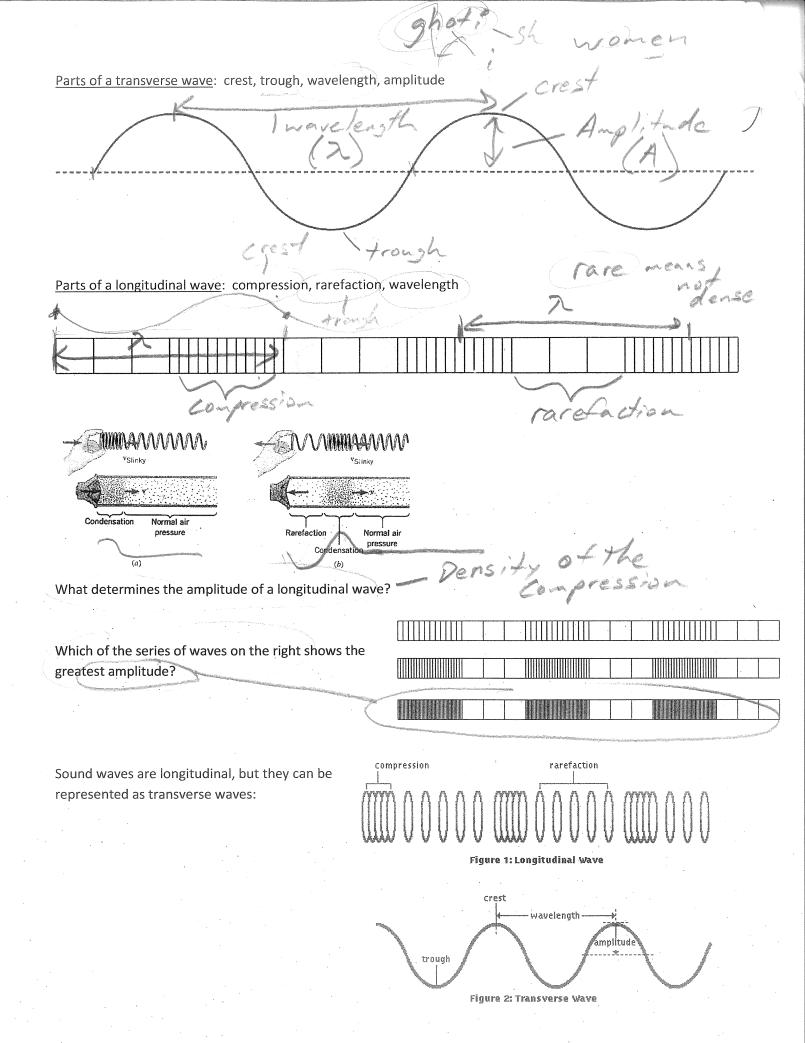
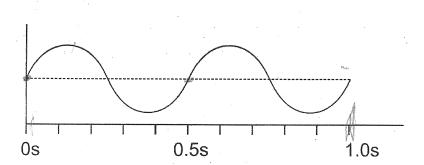
rendezvous

Physics 100 Mechanical Waves Notes	Name: <u>A3/4</u>
Wave: an oscillation y	the true to though
Oscillation: A back and for	the movement; Vibration
Types of Waves:	
Mechanical Wave: Oscillation	The same of the sa
Examples of Mechanical Waves: 5/ink	y waves, water waves, waves, sound waves
Electromagnetic Wave: Oscillating	electric and magnetic
Examples of Electromagnetic waves: \(\alpha \alpha \);	microwaves, infrared, "Kilet, x-rays, gamma ray
Types and parts of waves:	
Name the two different types of waves, below, an	
oscillations f	parallel to travel
(a) (a)	20000000000000000000000000000000000000
	Wavelength -
(p) (p)	MINIMON Transverse
oscillations	perpendicular

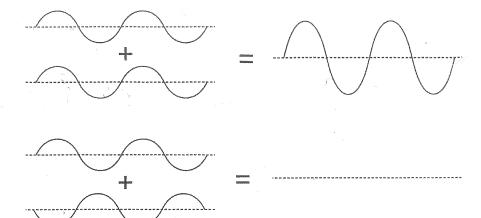


Period and Frequency

Period: / Time for one mare length to pass;
seconds per wave
Frequency: (Second
Symbol for frequency:
Units for frequency: hertz > 12
Ceyeles poer second
What is the period of the waves below?
Calculate the frequency of those waves. $ = 2 $



Wave Interference: When two waves overlap one another, their oscillations can add to one another, or they can diminish one another. Label the examples of interference on the right.



Wave Interference can cause "beats". When two waves have slightly different frequencies, their interference alternates between constructive and destructive. The diagram below shows transverse representations of two sound waves (channels 1 and 2) and their resultant sound (channel 3).

- In the diagram, label the channel with the highest frequency (1 or 2).
- Then label regions of constructive and destructive interference. Channel 3 is the "sum" of channels 1 and 2.
- Label the "beats" that will be heard

