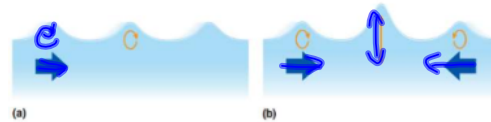


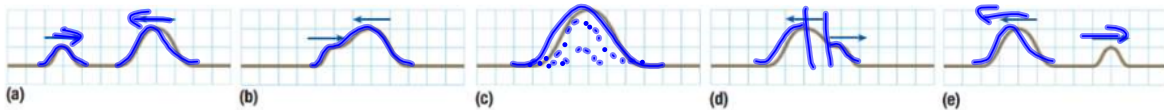
SPH3U 9.1 Interference of Waves**1. Wave interference**

Interference:	a new wave is created when two waves meet.
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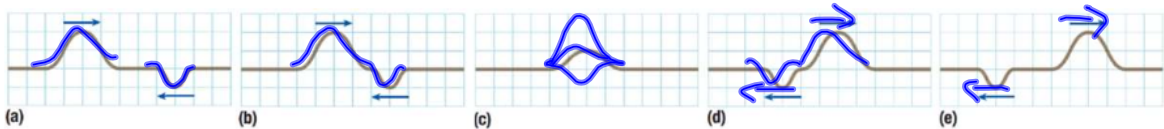


Principle of superposition:	When 2 waves meet, the amplitude is the sum of the 2 individual amplitudes.
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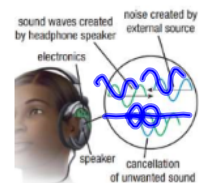
① Constructive interference:	2 waves add to make a <u>larger</u> wave.
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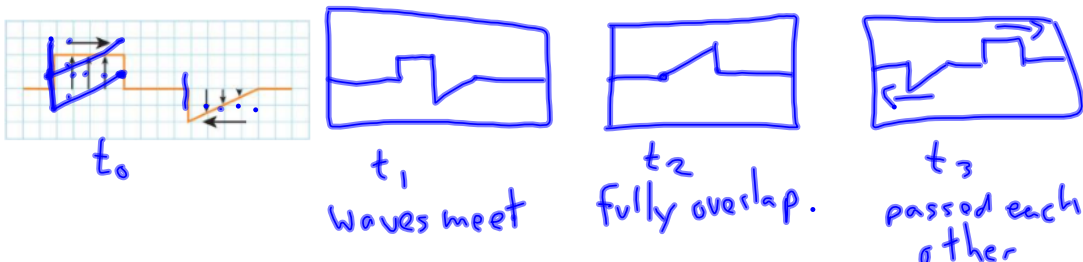
② Destructive interference:	2 waves add to make a <u>smaller</u> wave.
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Noise-cancelling headphones:	cancel outside noise using destructive interference
benefit	can listen at lower levels.



These two waveforms are about to interfere with each other. Draw the resultant waveform.



Homework: page 419: #1-2