

Honors Physics: Semester 2 Final Review: part 2

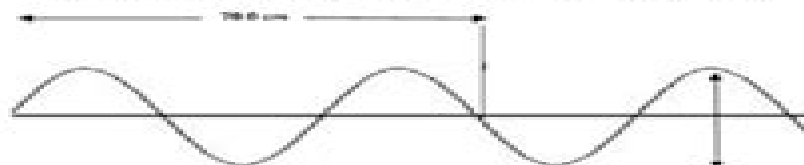
Wonders

Key Ideas:

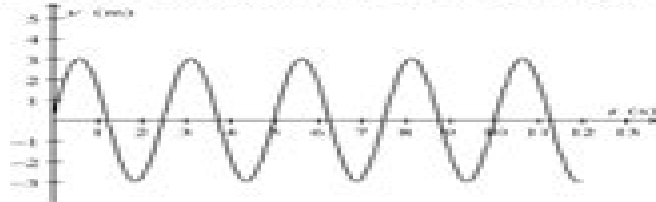
- know the definition of a wave
- know all your vocab, there's a lot (amplitude, crest, trough, rarefaction, phase,...)
- know the different wave parameters (frequency, wavelength,...) their units, and how to identify them using the graph of a wave
- know the difference between transverse vs. longitudinal and mechanical vs. electromagnetic waves, and know examples of each
- know the relationship between frequency, wavelength and velocity of a wave and know how to apply the equation $v = f\lambda$
- know which factors affect the velocity of a wave and which don't
- know the definitions and characteristics of the various wave behaviors we've discussed (refraction, interference, resonance, standing wave,...) and be able to give an example of each type of behavior
- know which wave properties are affected by each type of behavior
- be able to draw the resultant wave pattern from two interfering wave pulses
- understand the concept of resonance and when it occurs
- be able to both draw and identify harmonic patterns for the three cases of resonance we studied: resonance on a guitar string, resonance in a tube open at both ends, and resonance in a tube closed at one end
- know, and be able to apply the equations for calculating the fundamental frequency and the higher harmonics for the three types of media mentioned in the previous bullet
- be able to tell from a looking at a picture of a ray a light going from one medium to another whether the ray is bending towards or away from the normal, which medium is more dense, and which has a higher index of refraction
- understand what an index of refraction is and what it tells about the speed of light in different media
- know Snell's law and be able to apply it when solving problems
- know the conditions for total internal reflection and how to solve for the critical angle above which total internal reflection occurs
- know what the Doppler effect
- know the Doppler effect equation and be able to use it when solving problems

Practice Problems

- What is the wavelength of a sound wave with a frequency of 1000 Hz and a speed of 344 m/s?
- A radar antenna emits electromagnetic radiation ($c = 3.0 \times 10^8$ m/s) with a wavelength of 0.03 m for 0.050 s. a) What's the frequency of the radiated wave? b) How many complete waves are emitted in this time interval? c) After 10.0 seconds, how far is the front of the wave from the antenna?
- For a given type of wave, periodic waves with a higher frequency will have _____ wavelengths than those with lower frequencies.
- Why doesn't sound travel in a vacuum?
- The distance between two successive crests of an ocean wave is 13.0 m. The time between successive crests is 7.5 sec. a) Determine the **period** and **frequency** of the waves. b) Determine the **speed** of the waves.
- The time required for an object to complete one cycle of motion is called _____.
- Waves that cannot exist without a medium to travel through are called _____ waves.
- The maximum displacement of a particle from its equilibrium position is called _____.
- A _____ wave's particles vibrate in the same direction as the wave motion.
- The _____ of a mechanical wave is constant even when the medium changes.
- A wave generator produces 17 waves every 10 sec. What's the period of the waves being generated?
- Lower frequency sound waves will have a higher pitch. T F
- A Slinky-spring is shaken up and down 5 times in 3.8 s. The wave pattern produced looks like the below wave. Label the crest, trough, wavelength and amplitude. Calculate the frequency, period, wavelength and speed of the wave.



- The graph below displays how displacement varies with time when a wave passes a fixed point at a speed of 14m/s. Calculate the frequency and wavelength of the wave.



Honors Physics Semester 2 Final

Stephen Nettel



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