
Electromagnetic Waves Practice Answers

electromagnetic waves example problems - electromagnetic waves example problems what is the frequency green light that has a wavelength of $5.5 \times 10^{-7}\text{-m}$? : 3.0 3.0 s example 2: what is the wavelength of a microwave that has a frequency of $4.2 \times 10^8\text{-hz}$? example 3: lei when an electromagnetic wave travels from one medium to another its speed changes (either increases or **em waves practice problems** - properties of electromagnetic waves class work 33. light with a wavelength of 400.0 nm travels in vacuum. what is the frequency? 34. light with a frequency of $6.0 \times 10^{14}\text{ hz}$ travels in vacuum. what is the wavelength? 35. ... em waves practice problems **electromagnetic waves practice problems** - electromagnetic waves practice problems slide 1 / 51 multiple choice slide 2 / 51 1 which of the following theories can explain the bending of waves behind obstacles into "shadow region"? a particle theory of light b wave theory of light c kinetic theory d special theory of relativity e classical mechanics slide 3 / 51 **practice problem set 1 electromagnetic radiation** - practice problems (set #1) ... the photoelectric effect is the name given to the process where light waves striking the surface of a metal frees some electrons and produces an electric current. how is it ... this wavelength comes from the visible region of the electromagnetic spectrum 11. which has more energy, a photon of violet light or a ... **practice problems chapter 34 electromagnetic waves** - 1 practice problems chapter 34 electromagnetic waves multiple choice 1. the earth is 1.49×10^{11} meters from the sun. if the solar radiation at the top of the earth's atmosphere is 1340 w/m^2 , what is the total power output of the sun? a. **wave speed equation practice problems - conant physics** - wave speed equation practice problems the formula we are going to practice today is the wave speed equation: wave speed=wavelength*frequency $v = f \lambda$... if 6 waves pass in 2 seconds, the frequency is 3 hz sample problems: sample problem 1) a wave has frequency of 50 hz and a wavelength of 10 m. what is the speed **physics 202 practice exam waves, sound, reflection and ...** - physics 202 practice exam waves, sound, reflection and refraction name ____ constants and conversion factors speed of sound in air $\approx 343\text{ m/s}$