

Unit 6F

Electromagnetic Wave Properties Practice Problems

Date:

Work each of the followin	g problems.	SHOW ALL	WORK.

1.	If the frequency of a light wave is doubled, what happens to the wavelength of the wave?	
2.	An AM radio station has a frequency of 720 kHz. What is the corresponding wavelength to this radio station?	
3.	An FM radio station has a frequency of 96.7 MHz. What is the corresponding wavelength to this radio station?	
4.	The range of visible light wavelengths is between 3.9 x 10^{-7} m and 7.0 x 10^{-7} m. What is the corresponding range of frequencies for visible light?	
5.	X-rays used by dentists have a wavelength of roughly 3.0 x 10^{-11} m. What is the frequency of these waves?	