Energy / Frequency / Wavelength



1. Calculate the energy of a photon of radiation with a frequency of 5.45×10^{14} Hz.

2. What is the energy of light whose wavelength is 7.65×10^{-8} m?

3. Rank th	ne electromagne	tic spectrum fro	m shortest w	avelength (1) to	longest (/):	
Visible	Infrared	Microwave	Radio	Gamma	Ultraviolet	X-ray
4. Rank th	e electromagne	tic spectrum fror	n lowest free	uency (1) to hig	hest (7):	
Visible	Infrared	Microwave	Radio	Gamma	Ultraviolet	X-ray
5. Rank th	e electromagnet	tic spectrum fror	n lowest ener	rgy (1) to highes	t (7):	
Visible	Infrared	Microwave	Radio	Gamma	Ultraviolet	X-ray

(1) to low cost (7)atimum fuana ale anti 1 .1 1 . . •

Is the relationship between frequency and wavelength directly or inversely proportional?

Is the relationship between frequency and energy directly or inversely proportional?