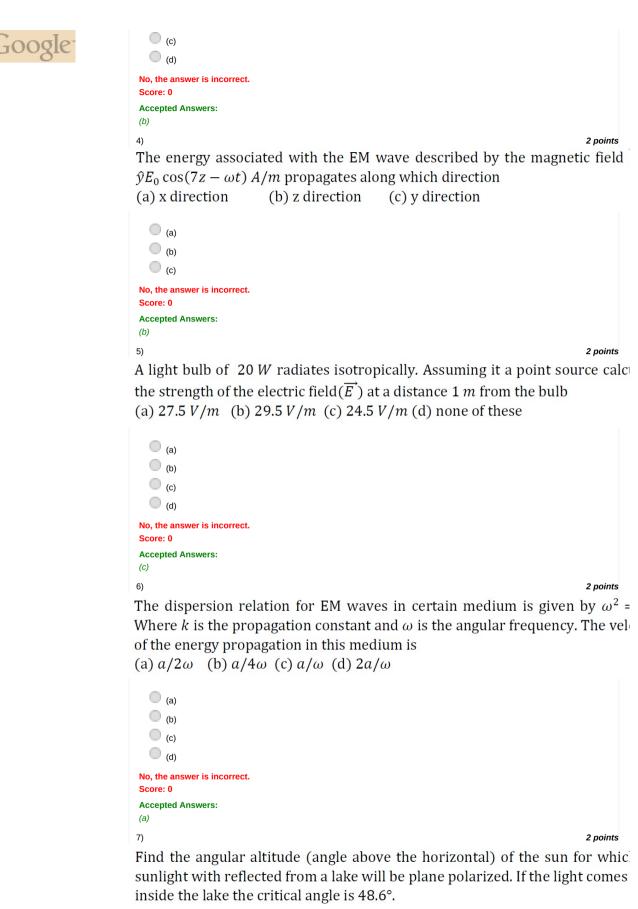


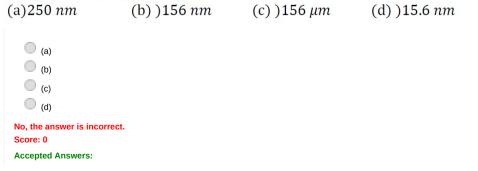
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(a) 48.6° (b) 90° (c) 36.87° (d) 53.13° • (a) Introduction to Non-linear Optics and its Applica...

) (b) (c) 🔘 (d) No, the answer is incorrect. Score: 0 Accepted Answers: (c) 8) 2 points A plane EM wave travelling through a transparent medium is given by $\overrightarrow{E_0}\cos(0.4\times 10^7\pi x-6\pi\times 10^{14}t)$ in SI units .Determine the refractive inde the material (a) 1.5 (d) 1.47 (b) 1.33 (c) 2(a) (b) (c) (d) No, the answer is incorrect. Score: 0 Accepted Answers: (c) 9) 2 points Normally the refractive index of a transparent material (a) is independent of frequency (b) decreases with increases in wavelength (c) increses with increases in wavelengt (d) at first decreases and then increases with wavelength. 🔘 (a)) (b) (c) 🔘 (d) No, the answer is incorrect. Score: 0 Accepted Answers: (b) 10) 0 points

The static dielectric constant of diamond is 5.50 and its refractive index at wavelength 589.3 μm is 2.417.Fit this data into Sellmeier's dispersion forr with a single natural frequency. Find the free space wavelength correspon to this natural frequency



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(b)	
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