The energy content of one quantum of light is found to be 6.36x10^-12 ergs. Calculate its wavelength in angstroms.

Answer:

Wavelength is λ . $\lambda = hc/E$

 $c = 3 \cdot 10^{10} \text{ sm/s}$ h = 1.054 \cdot 10^{-27} ergs/s E = 6.36 \cdot 10^{-12} ergs

 $\lambda = 5 \cdot 10^{-6}$ sm $= 5 \cdot 10^{2}$ angstroms