Speed of Light Problems



**#14**

**Solve for λ= c/f**

λ= 2.998 x 108 m/s **/** 1.5 x 1013 Hz

**λ= 1.99 x 10-5 meters**

**This** λ corresponds to infrared, therefore it has a longer wavelength than red light. (Use reference sheet)

**#15.**

**Solve for f= c/ λ**

**f=** 2.998 x 108 m/s **/5.00 x 10-8 m**

**f= 5.98 x 1015 Hz The** λ is given as 5.0 x **10-8 m** and corresponds to ultraviolet light. (Use reference sheet)